

# Price List 2018-19

Rishabh Instruments Pvt. Ltd.

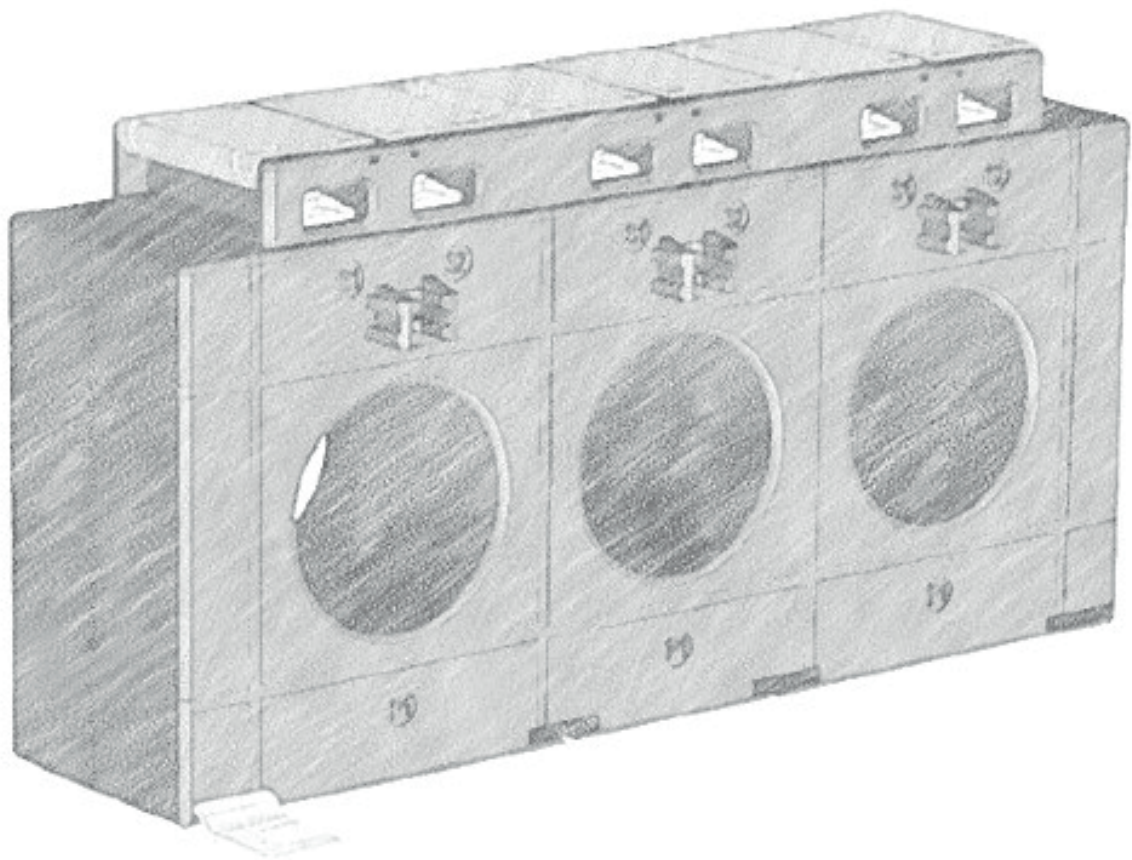
Price List w.e.f 1st October 2018

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RISHABH





**Analog Expertise**

# Analog Panel Meters 90° Scale



			48x48 mm	72x72 mm	96x96 mm	144x144mm
Group	Type	Description	LP (INR)			
Moving Iron AC Meters			EQ41	EQ71	EQ91	EQ11
EQ	Voltmeter	6,10,15,25,30,40,50,75,100,110,120,125,132.5,133.33,150,250,300V	450	410	470	690
		400,500,600V	530	450	520	770
		Non Standard Voltmeter/Non Std PT Operated Voltmeter/Other than above ranges (upto 600V)	610	530	600	900
	Milli -Ammeter	100,150,250,400,500,600,750mA	440	400	440	610
	Ammeter	1,1.2,1.25,1.5,2.5,4,5,6,10,15,20,25,CT Operated 5A/1A Secondary	440	390	410	580
		30,40,50,60A	620	470	500	690
100A		-	470	500	690	
	Non Standard Ammeter/Other than above ranges (upto 100A)	660	600	630	880	
Moving Iron AC Meters with In-built Selector Switch				SS71	SS91	
SS	Voltmeter / Ammeter	Inbuilt selector switch type Ammeters & Voltmeters (EQ-SWT)	-	600	670	-
Moving Coil DC Meters			PQ41	PQ71	PQ91	PQ11
PQ	Milli -Voltmeter	15*,25*,40*,50 mV	720	620	680	-
		60,75,100,150,250,400,600 & 750mV	690	600	650	1160
	Voltmeter	1,1.5,2.5,4,5,6,10,15, 20, 25,30V	690	600	710	1160
		40,50,60,100, 150,200, 250, 300V	790	690	740	1170
		400,500,600,	860	700	810	1220
		Non Standard Voltmeter/Other than above ranges (upto 600V)	1090	990	1060	1450
	Micro-Ammeter	15**,25**,40**,50*,60*,75uA	890	820	910	-
		100,150,200,250,400,500,600,750uA	780	710	740	1170
	Milli -Ammeter	1,1.5,2.5,4,5,6,10,15,20,25,40,60,100,150,200,250,300,400,500,600,750 mA	660	600	650	1100
	Ammeter	1,1.5,4,5,6,10,15,20,25A	660	600	650	1100
		30,40,60A	800	690	740	1330
		100A		810	820	1420
4-20mA		770	720	760	1270	
	Non Standard Ammeter/Other than above ranges (upto 100A)	-	960	980	1700	
** Class 5, * Class 2.5						
Moving Coil AC Meters with Rectifier			VQ41	VQ71	VQ91	VQ11
VQ	Voltmeter	40**,50*,60*,75,100,120,125,150,250,300,400,500,600V	1060	900	1020	1430
		Non Standard Voltmeter/Other than above ranges (upto 600V)	1230	1040	1190	1570
	Micro-Ammeter	100,150,250,400,500,600,750uA	980	910	940	1370

## Analog Panel Meters 90° Scale

Group	Type	Description	48x48m	72x72m	96x96m	144x144
			VQ41	VQ71	VQ91	VQ11
VQ	Milli -Ammeter	1,1.5,2.5,4,5,6,10,15,20,25,30,40,60 75,100mA	860	800	850	1310
		150,250,400 ,600,750mA	960	900	950	1410
	Ammeter	1,1.5,2.5,4,5A	-	1000	1060	1510
		6,10A	-	-	1120	1610
		Non Standard Ammeter/Other than above ranges (upto 10A)	-	-	1190	1660
** Class 5, * Class 2.5, Scales are Non-linear & Non-Interchangeable for 1A-10A Ranges						
Pointer type Frequency Meter with Built In Transducer			ZQ41	ZQ71	ZQ91	ZQ11
ZQ	Frequency Meter	45-50-55 Hz, 45-55-65 Hz, 55-60-65 Hz	900	850	920	990
		380-400-420 Hz, 360-400-440 Hz	-	820	880	950
Vibrating Reed type Frequency Meter				FQ71	FQ91	FQ11
FQ	Frequency Meter	45-50-55 Hz, 47-50-53 Hz	-	780	810	-
Power Factor Meter with Built In Transducer				CQ71	CQ91	CQ11
CQ	Power Factor Meter	1Ph. & 3Ph. balanced load	-	1440	1480	1560
		3Ph., 3W unbalanced load (D2C)	-	-	3260	3670
		3Ph., 4W unbalanced load (V3C)	-	-	3990	4470
Cap 0.8-1-0.3 Ind (Bal load), Cap 0.8-1-0.8 Ind (Bal load), Cap 0.5-1-0.5 Ind (Bal & Unbal Load)						
Active (W) / Reactive (B) Power Meter with Built In Transducer					WQ91	WQ11
WQ	Active Power Meter (Wattmeter)	Single Element Single Phase (E1W)	-	-	1570	1760
		Single Element 3 Phase 3 Wire Balanced Load (D1W)	-	-	1880	2010
		Two Element 3 Phase 3 Wire Unbalanced Load (D2W)	-	-	2510	2790
		Single Element 3 Phase 4 Wire Balanced Load (V1W)	-	-	2060	2200
		Three Element 3 Phase 4 Wire Unbalanced Load (V3W)	-	-	3120	3470
	Re-active Power Meter (VAr Meter)	Single Element Single Phase (E1B)	-	-	1570	1760
		Single Element 3 Phase 3 Wire Balanced Load (D1B)	-	-	1880	2010
		Two Element 3 Phase 3 Wire Unbalanced Load (D2B)	-	-	2510	2790
		Single Element 3 Phase 4 Wire Balanced Load (V1B)	-	-	2060	2200
		Three Element 3 Phase 4 Wire Unbalanced Load (V3B)	-	-	3120	3470
Please Specify Measuring Range, Primary & Secondary Voltage & Current While Ordering. Allowable λ factor ranges 0.5 - 1.5						
Synchroscope Meter						
SQ	Synchroscope	110/100V,127/120V,240/220V,480/380V,480/415V ( LED TYPE)	-	-	-	SQ91 2130 SQ11 3250
Maximum Demand Ammeters - BIQ / BIEQ			48x48m	72x72m	72x72m	96x96m 96x96m
MDI	Ammeter	.../1A/1.2/5/6A (8 minutes / 15 minutes)	BI41 1530	BI71 1360	BE71 1690	BI91 1290 BE91 1580
		.../1A/1.2/5/6A (20 minutes / 30 minutes)	-	2090	2330	2330 2440

## Analog Panel Meters 240° Scale

Group	Type	Description	48x48m	72x72m	96x96m	144x144
			PL41	PL71	PL91	PL11
Moving Coil DC Meters						
PL	Milli -Voltmeter	50,60,75,100,150,250,400,600 & 750 mV	-	1140	1210	1420
		1,1.5, 2.5, 4, 5, 6,10,15,25,30,40,50,60,75,100V	1240	1140	1210	1420
	Voltmeter	150,200,250,300,400,500,600V	-	1140	1210	1420
		Non Standard Voltmeter/Other than above ranges (upto 600V)	-	1220	1300	1530
	Micro-Ammeter	50*,60*,75,100uA	-	1210	1500	1540
		100,150,250,400,500,600uA	-	1090	1160	1480
	Milli -Ammeter	1,1.5,2.5,4,5,6,10,15,20,25,40,50,60,100,150,200,250,300,400,500,600,750 mA	-	1040	1110	1300
		1,1.5,2.5,4,5,6,10,15,20,25A	-	1040	1110	1300
	Ammeter	30,40,50,60A	-	-	1360	1420
		4-20mA	1300	1180	1240	1470
Non Standard Ammeter/Other than above ranges (upto 60A)		-	1270	1340	1560	
* Class 2.5						
Moving Coil AC Meters with Rectifier						
VL	Voltmeter	40**,50*,60*,100,110,120,125,132.5,133.33,150,200,250,300,400,500,600V	-	1330	1410	1620
		Non Standard Voltmeter/Other than above ranges (upto 600V)	-	1420	1490	1730
	Ammeter	1A & 5A CT operated	-	1440	1510	1720
** Class 5, * Class 2.5, Scales are Non-linear & Non-Interchangable for 1A & 5A Ranges						
Frequency Meter with Built In Transducer						
ZL	Frequency Meter	45-50-55 Hz, 45-55-65 Hz, 55-60-65 Hz	-	-	ZL91 1720	ZL11 1890
		380-400-420 Hz, 360-400-440 Hz	-	-	1810	1980
Power Factor Meter with Built In Transducer						
CL	Power Factor Meter	1Ph. & 3Ph. balanced load	-	-	CL91 2750	CL11 3510
		3Ph., 3W unbalanced load (D2C)	-	-	5010	5770
		3Ph., 4W unbalanced load (V3C)	-	-	5470	6220
Cap 0.-1-0.3 Ind (Balanced load), Cap 0.8-1-0.8 Ind (Balanced load), Cap 0.5-1-0.5 Ind (Balanced & Unbalanced Load)						
Active (W) / Reactive (B) Power Meter with built-in Transducer						
WL	Active Power Meter (Wattmeter)	Single Element Single Phase (E1W)	-	-	WL91 3300	WL11 3450
		Single Element 3 Phase 3 Wire Balanced Load (D1W)	-	-	3160	3300
		Two Element 3 Phase 3 Wire Unbalanced Load (D2W)	-	-	4670	4820
		Single Element 3 Phase 4 Wire Balanced Load (V1W)	-	-	3300	3450
		Three Element 3 Phase 4 Wire Unbalanced Load (V3W)	-	-	4270	4400
	Re-active Power Meter (VAr Meter)	Single Element Single Phase (E1B)	-	-	3300	3450
		Single Element 3 Phase 3 Wire Balanced Load (D1B)	-	-	3160	3300
		Two Element 3 Phase 3 Wire Unbalanced Load (D2B)	-	-	4670	4820
		Single Element 3 Phase 4 Wire Balanced Load (V1B)	-	-	3300	3450
		Three Element 3 Phase 4 Wire Unbalanced Load (V3B)	-	-	4270	4400
Please Specify Measuring Range, Primary & Secondary Voltage & Current While Ordering. Allowable λ factor ranges 0.5 - 1.5						

Extra Charges Applicable for 90 deg / 240 deg deflection meters	LP (INR)
Dial-Standard [Like 300/5A (If separate scale is required)]	35
Dial Non-Standard [Like RPM, m/min., %, BAR etc. (If separate scale is required)]	65
Customised Scale [Like rpm, m/min., %, BAR etc. This is a surcharge for non standard scale along with the meter price = LP + surcharge	45
Ammeter (x1) (without suppression)	No Extra
Ammeter (x2) or (x3) suppression (for EQ meters only)	No Extra
Ammeter (x5) or (x6) suppression (for EQ meters only)	35
Ammeter (x2) or (x6) suppression (for VQ & VL meters only)	45
Dual Range with three terminals (for EQ 96 and 144 sizes only)	95
Centre Zero (for PQ, PL, WQ & WL meters only)	35
Zero between left & centre (for PQ, PL, WQ & WL meters only)	40
Zero suppression (1.....5V DC) for PQ or PL meters	45
Additional numbering / marking / red mark	40
Coloured Sectors (red/green) per sector	40
Black scale & yellow / white pointer marking & number	75
Customised frequency EQ (40Hz.....400Hz)	45
Calibration at position other than perpendicular	40
Accuracy Class 1	40
Dual scale with two terminals	45
Triple scale with two terminals	65
Red Pointer Assembly 72x72 or 96x96	75
<b>Spares</b>	
Glass ( 48,72,96,144)	30
Glass with zero adjustment ( 48,72,96,144)	35
Anti glare Glass ( 48,72,96,144)	75
MDI Glass with Zero Adjustment Knob	70
Colour Bezel (White, Blue, Red, Yellow)	50
Clamp-strap with screw (set of 2)	30
Swivel fixing clamp (set of 2)	30
Spring clips (only for 48, set of 2)	50
Bezel / black frame	40
Full Back Cover as per IP-20	50
Rubber Gasket 72 Size	55
Rubber Gasket 96 Size	65
IP 65 protection class @ Extra Cost ( 72 / 96 size)	115
24V DC Illumination kit	200

## ANSI Standard Meters

Challenger Series						
Model			361	362	363	364
Length x Height(mm)			45.7 x 57.4	76.2 x 58.5	95.3 x 75.9	131.7 x 103
Round Cutout (mm)			40.35	53.8	53.8	69.5
Moving Iron AC Meters			EQ1C	EQ2C	EQ3C	EQ4C
EQ	Ammeters	Ammeters - Upto 30A	430	380	430	590
		Ammeters - 40 to 60A	510	460	480	690
	Voltmeters	Volt Meters - Upto 300V	450	400	460	650
		Volt Meters - 400 to 600V	490	460	480	700
Moving Coil DC Meter			PQ1C	PQ2C	PQ3C	PQ4C
PQ	Ammeters	Ammeter - 100 to 500uA	700	700	820	1070
		Ammeter - 1mA to 30A	600	550	590	1000
		Ammeter - 40 to 60A	-	600	640	1110
	Voltmeters	Volt Meter - Upto 30V	600	550	590	1000
		Volt Meter - 40 to 300V	680	620	670	1020
		Volt Meter - 400 to 600V	750	670	740	1070
Frequency Meter			ZQ1C	ZQ2C	ZQ3C	ZQ4C
ZQ	Frequency Meter	45-55Hz,45-65Hz,55-65Hz - 110V/240V/415V	-	810	860	

Anush Series				
Model			011	012
L x H - In mm			55.6 x 47.2	79.2 x 67.5
Round Cutout (mm)			39.37	55.6
Moving Iron AC Meters			EQ1A	EQ2A
EQ	Ammeters	Ammeters - Upto 30A	-	380
		Ammeters - 40 to 60A	-	440
	Voltmeters	Volt Meters - Upto 300V	-	430
		Volt Meters - 400 to 600V	-	440

Moving Coil DC Meters			PQ1A	PQ2A
PQ	Ammeters	Ammeter - 100 to 500uA	690	-
		Ammeter - 1mA to 30A	540	-
		Ammeter - 40 to 60A	600	-
	Voltmeters	Volt Meter - Upto 30V	540	-
		Volt Meter - 40 to 300V	610	-
		Volt Meter - 400 to 600V	660	-

## Analog Panel Meters - 2 in 1 Series

Model	Type	Description	96x96mm	144x144mm
Two In One Meters			EQ9T	EQ1T
2in1	2in1 Moving Iron AC			
	EQ 2in1	AC Moving Iron Low rating (<30A) Ammeter - Voltmeter combination Meters	710	1120
		AC Moving Iron High rating (30A & above) Ammeter - Voltmeter combination Meters	830	1240
		AC Moving Iron Voltmeter - Voltmeter combination Meters	750	1180
		AC Moving Iron Low rating (<30A) Ammeter - Low rating Ammeter (<30A) combination Meters	710	1120
		AC Moving Iron High rating (30A & above) Ammeter - Low rating (<30A) Ammeter combination Meters	830	1240
	2in1 Frequency Meters		ZQ9T	ZQ1T
	ZQ 2in1	Frequency - Frequency combination meters	1260	1670
	2in1 Moving Coil DC meters		PQ9T	PQ1T
	PQ 2in1	DC Moving Coil Low rating (<30A) Ammeter - Voltmeter combination Meters	1120	1530
		DC Moving Coil High rating (30A & above) Ammeter - Voltmeter combination Meters	1250	1640
		DC Moving Coil Voltmeter - Voltmeter combination Meters	1070	1490
		DC Moving Coil Low rating (<30A) Ammeter - Low rating (<30A) Ammeter combination Meters	1120	1530
		DC Moving Coil High rating (30A & above) Ammeter - Low rating (<30A) Ammeter combination Meters	1250	1640

## Run - Hour Meter

			72x72mm	96x96mm
Rish Elapsed Time Meter (Hour meter)			ET71	ET91
ETM	Hour meter	Voltage AC Input : 100-125 / 200-250 / 380-440V 50Hz & 60Hz	1600	1800

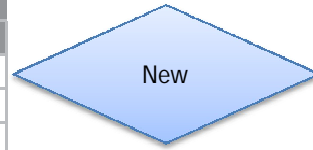


## Metering Current Transfomer

3 Phase Nano Series

Standard Secondary current : 250 mA AC

Group	Primary Current (A)	Class 0.5	
		VA	LP (INR)
CTB 3PH 65/8	63A/250mA	0.1	650
CTB 3PH 90/15	125A/250mA	0.1	850
CTB 3PH 116/26	250A/250mA	0.1	1090



## Metering Current Transfomer

TW series

Standard Secondary current : 5 A

Group	Primary Current (A)	Class 0.2		Class 0.5S		Class 0.5		Class 1	
		VA	LP (INR)	VA	LP (INR)	VA	LP (INR)	VA	LP (INR)
TW-1 : OD X ID X HT:- 73 X 30 X 40mm									
TW01	50	-	-	-	-	-	-	1.5	360
	60	-	-	-	-	-	-	1.5	350
	75	-	-	-	-	-	-	1.5	340
	80	-	-	-	-	-	-	1.5	340
	100	-	-	-	-	1.5	380	2.5	340
	120	-	-	-	-	1.5	380	2.5	365
	125	-	-	-	-	2.5	400	3.75	380
	150	-	-	-	-	2.5	410	5	400
	200	-	-	-	-	5	425	10	400
TW-2 : OD X ID X HT:- 73 X 30 X 50mm									
TW02	50	-	-	-	-	-	-	1.5	415
	60	-	-	-	-	-	-	1.5	440
	75	-	-	-	-	1.5	445	2.5	425
	80	-	-	-	-	1.5	445	2.5	425
	100	-	-	-	-	2.5	460	5	440
	120	-	-	-	-	2.5	440	5	445
	125	-	-	-	-	2.5	445	5	445
	150	-	-	2.5	475	5	460	10	460
	200	-	-	5	490	10	475	15	475
TW-3 : OD X ID X HT:- 92 X 43 X 41mm									
TW03	75	-	-	-	-	-	-	1	475
	80	-	-	-	-	-	-	1.5	480
	100	-	-	-	-	1	485	2.5	490
	120	-	-	-	-	1	485	2.5	495
	125	-	-	-	-	1	485	2.5	505
	150	-	-	-	-	1.5	495	3.75	470
	200	1.5	590	5	555	5	470	10	470
	250	2.5	600	7.5	570	7.5	480	15	470
	300	3.75	615	10	570	10	470	20	440

# Metering Current Transformer

TW series

Standard Secondary current : 5 A

Group	Primary Current (A)	Class 0.2		Class 0.5S		Class 0.5		Class 1	
		VA	LP (INR)	VA	LP (INR)	VA	LP (INR)	VA	LP (INR)
TW-4 : ODX ID X HT:- 100 X 58 X 41mm									
TW04	120	-	-	-	-	-	-	1	460
	125	-	-	-	-	-	-	1.5	460
	150	-	-	-	-	1	435	2.5	440
	200	-	-	1.5	470	2.5	445	5	445
	250	-	-	2.5	490	3.75	470	7.5	470
	300	-	-	3.75	505	5	480	10	480
	400	5	545	7.5	490	10	440	20	435
	500	7.5	560	10	500	15	470	25	470
	600	10	580	15	510	15	485	25	485
TW-5 : OD X ID X HT:- 110 X 72 X 41mm									
TW05	200	-	-	-	-	-	-	1.5	470
	250	-	-	-	-	1.5	495	2.5	495
	300	-	-	-	-	2.5	515	5	515
	400	2.5	570	5	550	7.5	535	12.5	535
	500	3.75	595	7.5	570	10	560	15	560
	600	5	610	7.5	590	10	575	15	575
	800	10	625	15	605	15	590	30	590
	1000	10	635	15	625	15	615	30	615
TW-6 : OD X ID X HT:- 159 X 113 X 40mm									
TW06	600	1.5	700	3.75	690	5	675	10	675
	800	2.5	710	7.5	700	10	690	15	690
	1000	3.75	735	7.5	710	10	700	15	700
	1200	15	770	15	755	20	745	30	745
	1250	15	790	15	785	20	780	30	780
	1500	15	810	15	810	20	805	30	805
	1600	15	845	15	840	20	835	30	835
	2000	15	885	20	865	25	855	45	855
	2500	15	935	20	930	25	925	45	920
	3000	15	1010	25	1000	30	990	45	980
3200	15	1075	25	1045	30	1040	45	1025	

**Note :-**

Please add INR 120 for 1A secondary current

For any non-standard item, please contact local sales office

Accessories (Optional)  
Wall Mounting Bracket

ITEM	NO	OD/ID (AXIAL)	LP (INR)
1	TW-2	73/30 (50)	45
2	TW-3	92/43 (41)	50
3	TW-4	100/58 (41)	60
4	TW-5	110/72 (41)	60
5	TW-6	159/113 (40)	65

# Metering Current Transformer

TW-E series

Standard Secondary current : 5 A

Group	Primary Current (A)	Class 0.5		Class 1	
		VA	LP (INR)	VA	LP (INR)
OD X ID X HT:- 73 X 30 X 50mm					
TE01	50	-	-	-	-
	60	-	-	-	-
	75	-	-	-	-
	100	2.5	525	5	380
	150	5	525	5	380
	200	5	385	5	370
	200	10	525	15	390
OD X ID XHT:- 80 X 30 X 100mm (Without Encapsulation)					
TE02	100	2.5	700	10	565
	100	-	-	15	1375
	150	5	1305	15	1160
OD X ID XHT:- 92 X 43 X 41mm					
TE03	200	5	405	5	380
	200	-	-	10	405
	200	-	-	15	680
	250	5	405	5	380
	250	7.5	575	10	435
	250	-	-	15	680
	300	5	425	5	385
	300	10	600	10	470
	300	-	-	15	600
	400	-	-	5	395
	400	-	-	15	530
OD X ID XHT:- 95 X 50 X 41mm					
TE04	200	5	490	5	370
	200	-	-	10	410
	200	-	-	15	700
	250	5	450	5	390
	250	7.5	640	10	505
	250	-	-	15	725
	300	5	460	5	435
	300	10	675	10	530
	300	-	-	15	660

# Metering Current Transfomer

TW-E series

Standard Secondary current : 5 A

Group	Primary Current (A)	Class 0.5		Class 1	
		VA	LP (INR)	VA	LP (INR)
OD X ID XHT:- 100 x 58 x 41mm					
TE05	400	5	410	5	385
	400	10	580	15	435
	500	5	410	5	385
	500	10	435	10	410
	500	15	580	15	435
	600	5	410	5	385
	600	10	435	10	435
600	15	580	15	435	
OD X ID XHT:- 110 x 72 x 41mm					
TE06	800	5	415	5	385
	800	10	430	10	410
	800	15	550	15	415
	1000	5	430	5	395
	1000	15	605	15	470
OD X ID XHT:- 135 x 85 x 30mm					
TE07	800	5	410	5	395
	800	10	440	10	430
	800	15	675	15	530
	1000	5	410	5	385
	1000	15	675	15	530
	1200	-	-	15	580
OD X ID XHT:- 159 x 113 x 40mm					
TE08	1200	15	675	15	530
	1500	15	810	15	675
	1600	15	840	15	700
	2000	15	910	15	775
OD X ID XHT:- 165 X 130 X 30mm					
TE09	2400	15	1005	15	865
	2500	15	1005	15	865
	3000	15	1090	15	945



## Metering Current Transformer

TW-E series

Standard Secondary current : 5 A

Group	Primary Current (A)	Class 0.5		Class 1	
		VA		VA	
OD X ID XHT:- 190 X 150 X 40mm (Without Encapsulation)					
TE10	3200	15	1305	15	1170
OD X ID XHT:- 235 X 200 X 35mm (Without Encapsulation)					
TE11	4000	-	-	15	1590
	5000	-	-	15	2115

Notes :-

Please add INR 120 for 1A secondary current

Please add INR 35 for Busbar Mounting Kit

For any non-standard item, please contact local sales office

Accessories(Optional)		
Wall Mounting Bracket		
ITEM	OD/ID (AXIAL)	LP (INR)
1	73/30 (50)	45
2	92/43 (41)	50
3	100/58 (41)	60
4	110/72 (41)	60
5	159/113 (40)	65

# Metering Current Transformer

Wound Primary Type : Rish Xmer

Standard Secondary current: 5A

Group	Primary Current (A)	Class 0.2		Class0.5		Class 1	
		VA	LP (INR)	VA	LP (INR)	VA	LP (INR)
Rish Xmer 62/W							
XW01	1	1	490	2.5	460	5	435
	2.5	1	490	2.5	460	5	435
	5	1	490	2.5	460	5	435
	7.5	1	490	2.5	460	5	435
	10	1	490	2.5	460	5	435
	15	1	490	2.5	460	5	435
	20	1	490	2.5	460	5	435
	25	1	490	2.5	460	5	435
	30	1	490	2.5	460	5	435
Rish Xmer 74/W							
XW02	1	1.5	615	5	570	10	540
	2.5	1.5	615	5	570	10	540
	5	1.5	615	5	570	10	540
	7.5	1.5	615	5	570	10	540
	10	1.5	615	5	570	10	540
	15	1.5	615	5	570	10	540
	20	1.5	615	5	570	10	540
	25	1.5	615	5	570	10	540
	30	1.5	615	5	570	10	540
	40	1.5	615	5	570	10	540
	50	1.5	615	5	570	10	540
	60	1.5	615	5	570	10	540

Notes :-

Please add INR 120 for 1A secondary current

For any non-standard item, please contact local sales office

# Metering Current Transformer

Busbar Type : Rish Xmer

Standard Secondary current: 5A

Group	Primary Current (A)	Type OD/ID (Axial)	Class 0.2S		Class 0.2		Class 0.5		Class 1	
			VA	LP (INR)	VA	LP (INR)	VA	LP (INR)	VA	LP (INR)
Rish Xmer 45/14 (40)										
XM01	30	45/14 (40)	-	-	-	-	-	-	1	455
	40	45/14 (40)	-	-	-	-	-	-	1	440
	60	45/14 (40)	-	-	-	-	-	-	1.5	280
	75	45/14 (40)	-	-	-	-	-	-	2.5	285
	80	45/14 (40)	-	-	-	-	1	295	2.5	285
	100	45/14 (40)	-	-	-	-	1.5	300	3.75	295
	120	45/14 (40)	-	-	-	-	1.5	305	3.75	295
	125	45/14 (40)	-	-	-	-	2.5	305	3.75	295
	150	45/14 (40)	-	-	-	-	2.5	355	5	295
	200	45/14 (40)	-	-	-	-	3.75	380	7.5	355
	250	45/14 (40)	-	-	-	-	5	405	7.5	370
300	45/14 (40)	-	-	-	-	5	415	10	395	
Rish Xmer 45/21 (40)										
XM02	50	45/21 (40)	-	-	-	-	-	-	1.5	310
	60	45/21 (40)	-	-	-	-	-	-	1.5	310
	75	45/21 (40)	-	-	-	-	-	-	2.5	310
	80	45/21 (40)	-	-	-	-	1	310	2.5	310
	100	45/21 (40)	-	-	-	-	1.5	325	3.75	325
	120	45/21 (40)	-	-	-	-	1.5	325	3.75	325
	125	45/21 (40)	-	-	-	-	2.5	325	3.75	325
	150	45/21 (40)	-	-	-	-	2.5	340	5	340
	200	45/21 (40)	-	-	-	-	3.75	340	5	340
	250	45/21 (40)	-	-	-	-	3.75	340	5	340
	300	45/21 (40)	-	-	-	-	5	360	5	340
400	45/21 (40)	-	-	-	-	5	385	5	370	
Rish Xmer 50/14 (30)										
XM03	40	50/14 (30)	-	-	-	-	-	-	1	295
	50	50/14 (30)	-	-	-	-	-	-	1.5	280
	60	50/14 (30)	-	-	-	-	-	-	1.5	285
	75	50/14 (30)	-	-	-	-	-	-	1.5	260
	80	50/14 (30)	-	-	-	-	-	-	1.5	260

# Metering Current Transfomer

Busbar Type : Rish Xmer

Standard Secondary current: 5A

Group	Primary Current (A)	Type OD/ID (Axial)	Class 0.2S		Class 0.2		Class 0.5		Class 1	
			VA	LP (INR)	VA	LP (INR)	VA	LP (INR)	VA	LP (INR)
	100	50/14 (30)	-	-	-	-	2.5	330	3.75	285
	120	50/14 (30)	-	-	-	-	2.5	360	3.75	300
	125	50/14 (30)	-	-	-	-	2.5	360	3.75	300
	150	50/14 (30)	-	-	-	-	3.75	365	5	305
	200	50/14 (30)	-	-	-	-	3.75	380	5	325
	250	50/14 (30)	-	-	-	-	5	395	7.5	335
	300	50/14 (30)	-	-	-	-	7.5	410	7.5	350
Rish Xmer 50/14 (50)										
XM04	30	50/14 (50)	-	-	-	-	-	-	1	530
	40	50/14 (50)	-	-	-	-	-	-	1	515
	50	50/14 (50)	-	-	-	-	1.5	540	1.5	445
	60	50/14 (50)	-	-	-	-	1.5	540	1.5	445
	75	50/14 (50)	-	-	-	-	2.5	540	5	540
	80	50/14 (50)	-	-	-	-	2.5	490	5	490
	100	50/14 (50)	-	-	-	-	3.75	520	5	400
	120	50/14 (50)	-	-	-	-	3.75	435	5	400
	125	50/14 (50)	-	-	-	-	3.75	435	5	415
	150	50/14 (50)	-	-	-	-	5	460	7.5	460
	200	50/14 (50)	-	-	-	-	7.5	460	10	460
	250	50/14 (50)	-	-	-	-	10	520	12.5	490
300	50/14 (50)	-	-	-	-	10	590	12.5	490	
Rish Xmer 50/21 (30)										
XM05	50	50/21 (30)	-	-	-	-	-	-	1	260
	60	50/21 (30)	-	-	-	-	-	-	1	260
	75	50/21 (30)	-	-	-	-	-	-	1.5	260
	80	50/21 (30)	-	-	-	-	1	365	2.5	310
	100	50/21 (30)	-	-	-	-	1.5	370	5	270
	120	50/21 (30)	-	-	-	-	2.5	330	5	265
	125	50/21 (30)	-	-	-	-	2.5	335	5	325
	150	50/21 (30)	-	-	-	-	2.5	340	5	325
200	50/21 (30)	-	-	-	-	3.75	350	5	290	

# Metering Current Transformer

Busbar Type : Rish Xmer

Standard Secondary current: 5A

Group	Primary Current (A)	Type OD/ID (Axial)	Class 0.2S		Class 0.2		Class 0.5		Class 1	
			VA	LP (INR)	VA	LP (INR)	VA	LP (INR)	VA	LP (INR)
	250	50/21 (30)	-	-	-	-	5	355	5	295
	300	50/21 (30)	-	-	-	-	5	365	7.5	305
	400	50/21 (30)	-	-	-	-	5	400	7.5	340
Rish Xmer 50/21 (50)										
XM06	50	50/21 (50)	-	-	-	-	1	520	-	-
	60	50/21 (50)	-	-	-	-	1	520	2.5	520
	75	50/21 (50)	-	-	-	-	1.5	520	2.5	490
	80	50/21 (50)	-	-	-	-	2.5	520	5	520
	100	50/21 (50)	-	-	-	-	2.5	415	5	400
	120	50/21 (50)	-	-	-	-	3.75	415	5	400
	125	50/21 (50)	-	-	-	-	5	415	5	405
	150	50/21 (50)	-	-	-	-	5	540	10	555
	200	50/21 (50)	-	-	-	-	7.5	475	10	475
	250	50/21 (50)	-	-	-	-	7.5	435	10	435
	300	50/21 (50)	-	-	-	-	7.5	520	12.5	490
400	50/21 (50)	-	-	-	-	10	540	15	510	
Rish Xmer 50/30 (30)										
XM07	75	50/30 (30)	-	-	-	-	-	-	1	260
	80	50/30 (30)	-	-	-	-	-	-	1.5	260
	100	50/30 (30)	-	-	-	-	1	285	2.5	265
	120	50/30 (30)	-	-	-	-	1	280	2.5	265
	125	50/30 (30)	-	-	-	-	1	285	2.5	270
	150	50/30 (30)	-	-	-	-	2.5	285	3.75	270
	200	50/30 (30)	-	-	-	-	2.5	300	5	285
	250	50/30 (30)	-	-	-	-	5	320	5	300
	300	50/30 (30)	-	-	-	-	5	325	5	305
	400	50/30 (30)	-	-	-	-	5	290	6.25	270
	500	50/30 (30)	-	-	-	-	5	300	6.25	285
600	50/30 (30)	-	-	-	-	5	310	7.5	300	
Rish Xmer 50/30 (50)										
XM08	50	50/30 (50)	-	-	-	-	-	-	1.5	375



# Metering Current Transformer

Busbar Type : Rish Xmer

Standard Secondary current: 5A

Group	Primary Current (A)	Type OD/ID (Axial)	Class 0.2S		Class 0.2		Class 0.5		Class 1	
			VA	LP (INR)	VA	LP (INR)	VA	LP (INR)	VA	LP (INR)
XM08	60	50/30 (50)	-	-	-	-	-	-	1.5	380
	75	50/30 (50)	-	-	-	-	-	-	2.5	385
	80	50/30 (50)	-	-	-	-	-	-	2.5	385
	100	50/30 (50)	-	-	-	-	1	445	3.75	400
	120	50/30 (50)	-	-	-	-	2.5	445	5	405
	125	50/30 (50)	-	-	-	-	2.5	445	5	405
	150	50/30 (50)	-	-	-	-	5	435	5	405
	200	50/30 (50)	-	-	-	-	5	450	7.5	415
	250	50/30 (50)	-	-	-	-	5	470	10	415
	300	50/30 (50)	-	-	-	-	5	475	10	435
	400	50/30 (50)	-	-	-	-	10	510	12.5	445
	500	50/30 (50)	-	-	-	-	10	545	12.5	460
	600	50/30 (50)	-	-	-	-	5	580	15	490
Rish Xmer 62/R										
XM09	50	62/R	-	-	-	-	-	-	1.5	385
	60	62/R	-	-	-	-	-	-	2.5	390
	75	62/R	-	-	-	-	1.5	575	2.5	470
	80	62/R	-	-	-	-	2.5	580	2.5	470
	100	62/R	-	-	1.5	615	2.5	590	5	525
	120	62/R	-	-	1.5	630	3.75	595	5	530
	125	62/R	-	-	1.5	635	3.75	600	5	535
	150	62/R	-	-	2.5	640	5	615	7.5	545
	200	62/R	-	-	5	665	7.5	630	10	565
	250	62/R	-	-	5	685	10	650	15	580
	300	62/R	-	-	5	725	10	675	15	600
	400	62/R	-	-	7.5	760	15	710	15	640
	500	62/R	-	-	10	790	15	750	15	685
600	62/R	-	-	10	805	15	770	15	710	
Rish Xmer 62/20 (40)										
XM10	50	62/20 (40)	-	-	-	-	-	-	1.5	385
	60	62/20 (40)	-	-	-	-	-	-	2.5	390

# Metering Current Transformer

Busbar Type : Rish Xmer

Standard Secondary current: 5A

Group	Primary Current (A)	Type OD/ID (Axial)	Class 0.2S		Class 0.2		Class 0.5		Class 1	
			VA	LP (INR)	VA	LP (INR)	VA	LP (INR)	VA	LP (INR)
XM10	75	62/20 (40)	-	-	-	-	1.5	575	3.75	515
	80	62/20 (40)	-	-	-	-	2.5	580	3.75	515
	100	62/20 (40)	1.5	3790	1.5	645	2.5	590	5	525
	120	62/20 (40)	1.5	3805	1.5	645	3.75	595	5	530
	125	62/20 (40)	1.5	3810	1.5	645	3.75	600	5	535
	150	62/20 (40)	2	3815	2.5	640	5	615	7.5	545
	200	62/20 (40)	3.75	3815	5	650	7.5	630	10	565
	250	62/20 (40)	3.75	3835	5	670	10	650	15	580
	300	62/20 (40)	3.75	2625	5	690	10	675	15	600
400	62/20 (40)	5	2650	7.5	730	15	710	15	640	
Rish Xmer 62/30 (40)										
XM11	50	62/30 (40)	-	-	-	-	-	-	1.25	415
	60	62/30 (40)	-	-	-	-	-	-	1.5	415
	75	62/30 (40)	-	-	-	-	-	-	1.5	400
	80	62/30 (40)	-	-	-	-	-	-	2	400
	100	62/30 (40)	-	-	1	460	1.5	455	2.5	405
	120	62/30 (40)	-	-	1	470	2.5	460	3.75	410
	125	62/30 (40)	-	-	1	470	2.5	460	3.75	415
	150	62/30 (40)	-	-	1.5	475	3.75	470	5	425
	200	62/30 (40)	-	-	2.5	490	5	480	7.5	435
	250	62/30 (40)	-	-	3.75	510	5	495	10	460
	300	62/30 (40)	-	-	3.75	525	5	515	10	470
	400	62/30 (40)	-	-	5	565	7.5	550	12.5	505
	500	62/30 (40)	-	-	7.5	570	10	560	12.5	510
	600	62/30 (40)	-	-	7.5	600	15	575	15	530
750	62/30 (40)	-	-	10	630	15	590	15	545	
800	62/30 (40)	-	-	10	630	15	590	15	560	
Rish Xmer 62/30 (50)										
XM12	50	62/30 (50)	-	-	-	-	-	-	1.5	590
	60	62/30 (50)	-	-	-	-	-	-	2.5	590
	75	62/30 (50)	-	-	-	-	2.5	615	2.5	590

# Metering Current Transformer

Busbar Type : Rish Xmer

Standard Secondary current: 5A

Group	Primary Current (A)	Type OD/ID (Axial)	Class 0.2S		Class 0.2		Class 0.5		Class 1	
			VA	LP (INR)	VA	LP (INR)	VA	LP (INR)	VA	LP (INR)
XM12	80	62/30 (50)	-	-	-	-	2.5	615	3.75	590
	100	62/30 (50)	-	-	1.25	665	2.5	645	5	615
	120	62/30 (50)	-	-	1.25	665	5	630	5	600
	125	62/30 (50)	-	-	1.25	665	5	630	5	600
	150	62/30 (50)	-	-	2	690	5	645	7.5	615
	200	62/30 (50)	-	-	3.75	690	10	645	15	615
	250	62/30 (50)	-	-	5	700	15	665	15	630
	300	62/30 (50)	-	-	5	700	15	665	15	630
	400	62/30 (50)	-	-	6.25	720	15	675	30	645
	500	62/30 (50)	-	-	7.5	730	15	700	30	675
	600	62/30 (50)	-	-	10	760	20	730	30	700
	750	62/30 (50)	-	-	10	845	20	805	30	780
800	62/30 (50)	-	-	10	880	20	820	30	790	
Rish Xmer 62/40 (40)										
XM13	100	62/40 (40)	-	-	-	-	-	-	1	290
	120	62/40 (40)	-	-	-	-	-	-	1.5	295
	125	62/40 (40)	-	-	-	-	-	-	1.5	295
	150	62/40 (40)	-	-	-	-	-	-	2.5	300
	200	62/40 (40)	1	1355	1	355	1.5	340	3.75	320
	250	62/40 (40)	-	-	1.5	365	2.5	355	5	335
	300	62/40 (40)	1.5	1300	1.5	380	5	365	5	340
	400	62/40 (40)	2.5	1335	2.5	410	5	395	5	310
	500	62/40 (40)	-	-	5	415	5	400	7.5	325
	600	62/40 (40)	-	-	-	-	7.5	415	10	335
	750	62/40 (40)	-	-	-	-	10	405	10	340
800	62/40 (40)	-	-	-	-	10	415	10	340	
Rish Xmer 74/20 (45)										
XM14	50	74/20 (45)	-	-	-	-	-	-	2.5	840
	60	74/20 (45)	-	-	-	-	-	-	3.75	845
	75	74/20 (45)	-	-	-	-	1.5	920	5	845
	80	74/20 (45)	-	-	-	-	1.5	920	5	845

# Metering Current Transformer

Busbar Type : Rish Xmer

Standard Secondary current: 5A

Group	Primary Current (A)	Type OD/ID (Axial)	Class 0.2S		Class 0.2		Class 0.5		Class 1	
			VA	LP (INR)	VA	LP (INR)	VA	LP (INR)	VA	LP (INR)
XM14	100	74/20 (45)	-	-	-	-	5	780	7.5	875
	120	74/20 (45)	-	-	-	-	5	765	10	765
	125	74/20 (45)	-	-	-	-	5	810	10	765
	150	74/20 (45)	-	-	-	-	7.5	840	12.5	800
	200	74/20 (45)	-	-	-	-	10	640	15	615
	250	74/20 (45)	-	-	-	-	10	675	15	630
	300	74/20 (45)	-	-	-	-	15	690	15	640
	400	74/20 (45)	-	-	-	-	15	715	20	675
Rish Xmer 74/30 (45)										
XM15	60	74/30 (45)	-	-	-	-	-	-	2.5	745
	75	74/30 (45)	-	-	-	-	1.5	860	2.5	750
	100	74/30 (45)	-	-	1.5	785	2.5	765	5	670
	120	74/30 (45)	-	-	1.5	630	2.5	610	5	550
	125	74/30 (45)	-	-	1.5	635	2.5	615	5	550
	150	74/30 (45)	-	-	1.5	555	5	530	7.5	580
	200	74/30 (45)	-	-	2.5	665	10	675	15	660
	250	74/30 (45)	-	-	2.5	680	10	660	15	640
	300	74/30 (45)	-	-	5	680	10	660	15	660
	400	74/30 (45)	-	-	7.5	770	15	745	20	690
	500	74/30 (45)	-	-	7.5	745	15	725	20	700
	600	74/30 (45)	-	-	7.5	780	15	760	20	715
	750	74/30 (45)	-	-	10	885	20	860	30	790
	800	74/30 (45)	-	-	10	900	30	880	30	810
Rish Xmer 74/40 (45)										
XM16	40	74/40 (45)	-	-	-	-	-	-	1	565
	50	74/40 (45)	-	-	-	-	-	-	1	520
	75	74/40 (45)	-	-	-	-	-	-	1.5	530
	80	74/40 (45)	-	-	-	-	-	-	1.5	530
	100	74/40 (45)	-	-	-	-	1.5	610	2.5	540
	120	74/40 (45)	-	-	-	-	1.5	615	2.5	550
	125	74/40 (45)	-	-	-	-	1.5	555	2.5	500

# Metering Current Transformer

Busbar Type : Rish Xmer

Standard Secondary current: 5A

Group	Primary Current (A)	Type OD/ID (Axial)	Class 0.2S		Class 0.2		Class 0.5		Class 1	
			VA	LP (INR)	VA	LP (INR)	VA	LP (INR)	VA	LP (INR)
XM16	150	74/40 (45)	-	-	-	-	2.5	565	3.75	510
	200	74/40 (45)	-	-	-	-	3.75	580	5	525
	250	74/40 (45)	-	-	-	-	5	580	7.5	525
	300	74/40 (45)	-	-	-	-	5	485	7.5	450
	400	74/40 (45)	-	-	-	-	7.5	625	12.5	570
	500	74/40 (45)	-	-	-	-	10	655	15	595
	600	74/40 (45)	-	-	-	-	15	680	20	625
	750	74/40 (45)	-	-	-	-	15	595	20	560
	800	74/40 (45)	-	-	-	-	15	610	20	570
1000	74/40 (45)	-	-	-	-	15	665	20	620	
Rish Xmer 74/50 (45)										
XM17	100	74/50 (45)	-	-	-	-	-	-	1.5	395
	120	74/50 (45)	-	-	-	-	-	-	1.5	405
	125	74/50 (45)	-	-	-	-	-	-	1.5	405
	150	74/50 (45)	-	-	-	-	-	-	2.5	415
	200	74/50 (45)	-	-	-	-	-	-	3.75	435
	250	74/50 (45)	-	-	-	-	2.5	485	5	445
	300	74/50 (45)	-	-	-	-	5	505	7.5	470
	400	74/50 (45)	-	-	-	-	5	470	7.5	475
	500	74/50 (45)	-	-	-	-	7.5	510	10	490
	600	74/50 (45)	-	-	-	-	10	520	12.5	510
	750	74/50 (45)	-	-	-	-	12.5	555	15	520
	800	74/50 (45)	-	-	-	-	12.5	565	15	540
1000	74/50 (45)	-	-	-	-	12.5	615	15	580	
Rish Xmer 86/40 (45)										
XM18	60	86/40 (45)	-	-	-	-	-	-	1.5	670
	75	86/40 (45)	-	-	-	-	-	-	2.5	675
	80	86/40 (45)	-	-	-	-	-	-	2.5	675
	100	86/40 (45)	-	-	1.5	675	1.5	670	3.75	675
	120	86/40 (45)	-	-	1.5	690	2.5	625	5	675
	125	86/40 (45)	-	-	1.5	655	2.5	630	5	675



# Metering Current Transfomer

Busbar Type : Rish Xmer

Standard Secondary current: 5A

Group	Primary Current (A)	Type OD/ID (Axial)	Class 0.2S		Class 0.2		Class 0.5		Class 1	
			VA	LP (INR)	VA	LP (INR)	VA	LP (INR)	VA	LP (INR)
XM18	150	86/40 (45)	-	-	2.5	655	3.75	595	5	540
	200	86/40 (45)	-	-	2.5	630	5	620	7.5	560
	250	86/40 (45)	-	-	3.75	690	7.5	675	12.5	610
	300	86/40 (45)	-	-	5	715	10	710	15	635
	400	86/40 (45)	-	-	7.5	750	15	740	20	670
	500	86/40 (45)	-	-	10	780	20	775	30	700
	600	86/40 (45)	-	-	15	800	30	790	30	715
	750	86/40 (45)	-	-	15	840	30	835	30	765
	800	86/40 (45)	-	-	15	860	30	675	30	630
1000	86/40 (45)	-	-	15	875	30	730	30	680	
Rish Xmer 86/50 (45)										
XM19	100	86/50 (45)	-	-	-	-	-	-	1.5	525
	120	86/50 (45)	-	-	-	-	1.5	590	2.5	530
	125	86/50 (45)	-	-	-	-	1.5	595	2.5	535
	150	86/50 (45)	-	-	-	-	2.5	600	5	540
	200	86/50 (45)	-	-	-	-	5	625	7.5	560
	250	86/50 (45)	-	-	-	-	7.5	640	10	575
	300	86/50 (45)	-	-	1.5	625	7.5	590	10	540
	400	86/50 (45)	-	-	2.5	635	15	600	15	550
	500	86/50 (45)	-	-	5	590	15	565	20	515
	600	86/50 (45)	-	-	7.5	615	15	580	20	540
	750	86/50 (45)	-	-	10	620	15	590	20	550
	800	86/50 (45)	-	-	12.5	730	20	700	30	645
	1000	86/50 (45)	-	-	20	780	30	750	30	700
	1200	86/50 (45)	-	-	20	725	30	700	30	655
1250	86/50 (45)	-	-	20	740	30	710	30	675	
Rish Xmer 86/60 (45)										
XM20	100	86/60 (45)	-	-	-	-	-	-	1	520
	120	86/60 (45)	-	-	-	-	-	-	1.5	485
	125	86/60 (45)	-	-	-	-	-	-	2.5	485
	150	86/60 (45)	-	-	-	-	-	-	2.5	490

# Metering Current Transformer

Busbar Type : Rish Xmer

Standard Secondary current: 5A

Group	Primary Current (A)	Type OD/ID (Axial)	Class 0.2S		Class 0.2		Class 0.5		Class 1	
			VA	LP (INR)	VA	LP (INR)	VA	LP (INR)	VA	LP (INR)
XM20	200	86/60 (45)	-	-	-	-	1.5	570	3.75	515
	250	86/60 (45)	-	-	-	-	2.5	580	5	530
	300	86/60 (45)	-	-	-	-	5	600	7.5	545
	400	86/60 (45)	2.5	2580	-	-	10	625	12.5	570
	500	86/60 (45)	2.5	2625	-	-	10	625	12.5	575
	600	86/60 (45)	5	2650	-	-	15	625	15	580
	750	86/60 (45)	-	-	-	-	15	670	20	615
	800	86/60 (45)	7.5	1515	-	-	20	690	20	630
	1000	86/60 (45)	-	-	-	-	20	720	20	680
	1200	86/60 (45)	-	-	-	-	20	730	20	730
	1250	86/60 (45)	-	-	-	-	20	780	20	740
	1500	86/60 (45)	-	-	-	-	20	820	20	775
	1600	86/60 (45)	-	-	-	-	20	845	20	800
Rish Xmer 100/100V (45)										
XR01	400	100/100V (45)	-	-	-	-	2.5	885	5	800
	500	100/100V (45)	-	-	-	-	2.5	905	5	820
	600	100/100V (45)	-	-	-	-	2.5	930	5	840
	750	100/100V (45)	-	-	-	-	2.5	960	5	880
	800	100/100V (45)	-	-	-	-	5	970	10	890
	1000	100/100V (45)	-	-	5	-	10	1020	15	935
	1200	100/100V (45)	5	1110	5	1085	10	1065	15	985
	1250	100/100V (45)	5	1155	5	1125	10	1075	15	995
	1500	100/100V (45)	5	1245	5	1165	15	1145	30	1050
	1600	100/100V (45)	7.5	1315	10	1245	15	1160	30	1095
	2000	100/100V (45)	7.5	1385	10	1280	15	1260	30	1125
2500	100/100V (45)	10	1625	10	1375	15	1340	20	1045	
Rish Xmer 100/130V (45)										
XR02	400	100/130V(45)	-	-	-	-	2.5	945	5	850
	500	100/130V(45)	-	-	-	-	2.5	990	5	890
	600	100/130V(45)	-	-	-	-	2.5	1040	5	935
	750	100/130V(45)	-	-	-	-	2.5	1100	5	995

# Metering Current Transfomer

Busbar Type : Rish Xmer

Standard Secondary current: 5A

Group	Primary Current (A)	Type OD/ID (Axial)	Class 0.2S		Class 0.2		Class 0.5		Class 1	
			VA	LP (INR)	VA	LP (INR)	VA	LP (INR)	VA	LP (INR)
XR02	800	100/130V(45)	-	-	-	-	5	1140	10	1025
	1000	100/130V(45)	-	-	-	-	10	1215	15	1105
	1200	100/130V(45)	-	-	-	-	10	1295	15	1180
	1250	100/130V(45)	-	-	-	-	10	1335	15	1220
	1500	100/130V(45)	-	-	5	1460	15	1435	30	1315
	1600	100/130V(45)	-	-	7.5	1515	15	1495	30	1370
	2000	100/130V(45)	-	-	7.5	1680	15	1640	30	1385
	2500	100/130V(45)	-	-	5	1855	15	1825	30	1415
	3000	100/130V(45)	-	-	5	1895	10	1590	12.5	1405
3200	100/130V(45)	-	-	5	1895	10	1590	12.5	1405	
Rish Xmer 104/60 (45)										
XM21	100	104/60 (45)	-	-	-	-	-	-	1.5	685
	120	104/60 (45)	-	-	-	-	-	-	2.5	690
	125	104/60 (45)	-	-	-	-	-	-	2.5	690
	150	104/60 (45)	-	-	-	-	2.5	790	5	700
	200	104/60 (45)	-	-	-	-	5	810	10	720
	250	104/60 (45)	-	-	1.5	845	7.5	830	12.5	735
	300	104/60 (45)	1.5	2475	2.5	860	10	845	15	755
	400	104/60 (45)	2.5	2510	3.75	855	10	840	15	750
	500	104/60 (45)	3.75	2475	7.5	810	15	795	20	715
	600	104/60 (45)	5	1460	10	840	15	820	30	745
	750	104/60 (45)	5	1490	15	885	20	860	30	785
	800	104/60 (45)	7.5	1515	15	950	30	835	30	805
	1000	104/60 (45)	10	1530	20	995	30	970	45	895
	1200	104/60 (45)	10	1565	30	1025	30	1010	45	930
1250	104/60 (45)	10	1575	30	1045	30	1025	45	945	
1500	104/60 (45)	10	1605	30	1090	30	1065	45	995	
1600	104/60 (45)	10	1630	30	1115	30	1100	45	1020	
Rish Xmer 104/80 (45)										
XM22	200	104/80 (45)	-	-	-	-	-	-	1.5	525
	250	104/80 (45)	-	-	-	-	1.5	590	2.5	540

# Metering Current Transformer

Busbar Type : Rish Xmer

Standard Secondary current: 5A

Group	Primary Current (A)	Type OD/ID (Axial)	Class 0.2S		Class 0.2		Class 0.5		Class 1	
			VA	LP (INR)	VA	LP (INR)	VA	LP (INR)	VA	LP (INR)
XM22	300	104/80 (45)	-	-	-	-	2.5	615	7.5	560
	400	104/80 (45)	-	-	1.5	665	5	640	10	590
	500	104/80 (45)	-	-	1.5	600	5	580	10	535
	600	104/80 (45)	-	-	2.5	625	7.5	610	12.5	565
	750	104/80 (45)	5	1430	5	690	10	675	15	620
	800	104/80 (45)	5	1460	7.5	700	10	685	15	630
	1000	104/80 (45)	7.5	1505	12.5	750	20	700	20	685
	1200	104/80 (45)	10	1530	15	800	20	760	30	730
	1250	104/80 (45)	10	1565	15	810	20	790	30	740
	1500	104/80 (45)	10	1590	15	835	20	810	30	770
	1600	104/80 (45)	10	1625	15	865	20	860	30	795
2000	104/80 (45)	10	1665	15	950	20	920	30	890	
Rish Xmer 140/80 (45)										
XM23	200	140/80 (45)	-	-	-	-	2.5	785	5	700
	250	140/80 (45)	-	-	-	-	5	800	10	710
	300	140/80 (45)	-	-	1.5	830	7.5	810	15	725
	400	140/80 (45)	-	-	2.5	885	10	865	20	780
	500	140/80 (45)	2.5	1495	5	1010	15	995	30	890
	600	140/80 (45)	3.75	1545	7.5	950	15	935	30	840
	750	140/80 (45)	5	1575	10	1075	15	1060	45	950
	800	140/80 (45)	5	1590	10	1095	15	1070	45	965
	1000	140/80 (45)	10	1825	15	1150	30	1130	60	1025
	1200	140/80 (45)	12.5	1895	15	1180	30	1155	60	1040
	1250	140/80 (45)	12.5	1930	30	1210	60	1165	60	1050
	1500	140/80 (45)	15	1475	30	1225	60	1180	60	1065
	1600	140/80 (45)	15	1490	30	1260	60	1200	60	1085
2000	140/80 (45)	15	1505	30	1300	60	1245	60	1095	
Rish Xmer 130/100 (50)										
XR06	600	130/100 (50)	2.5	2130	2.5	1865	5	1690	10	1600
	750	130/100 (50)	5	2215	5	1955	10	1690	10	1600
	800	130/100 (50)	10	2215	10	2045	10	1690	10	1600

# Metering Current Transfomer

Busbar Type : Rish Xmer

Standard Secondary current: 5A

Group	Primary Current (A)	Type OD/ID (Axial)	Class 0.2S		Class 0.2		Class 0.5		Class 1	
			VA	LP (INR)	VA	LP (INR)	VA	LP (INR)	VA	LP (INR)
XR06	1000	130/100 (50)	10	2310	10	2045	15	1955	15	1690
	1200	130/100 (50)	10	2310	10	2045	15	1955	15	1690
	1250	130/100 (50)	10	2310	10	2130	15	1955	15	1690
	1500	130/100 (50)	10	2440	15	2245	15	2130	15	1690
	1600	130/100 (50)	10	2440	15	2245	15	2130	15	1845
	2000	130/100 (50)	10	2625	15	2405	15	2290	15	2000
	2500	130/100 (50)	10	2705	15	2485	15	2375	15	2155
	3000	130/100 (50)	12.5	2825	15	2600	15	2490	15	2270
	3200	130/100 (50)	15	2825	15	2600	15	2490	15	2270
Rish Xmer 140/100H (45)										
XM24	200	140/100H (45)	-	-	-	-	1.5	760	3.75	675
	250	140/100H (45)	-	-	-	-	2.5	775	5	690
	300	140/100H (45)	-	-	-	-	3.75	800	7.5	710
	400	140/100H (45)	-	-	1.5	835	7.5	820	10	735
	500	140/100H (45)	-	-	2.5	860	10	845	12.5	770
	600	140/100H (45)	2.5	1275	3.75	860	10	845	15	770
	750	140/100H (45)	5	1310	5	900	15	885	20	810
	800	140/100H (45)	5	1325	5	920	15	900	20	820
	1000	140/100H (45)	5	1375	10	965	15	950	20	870
	1200	140/100H (45)	10	1425	15	1020	15	1000	30	925
	1250	140/100H (45)	10	1440	15	1030	15	1010	30	930
	1500	140/100H (45)	15	1465	20	1095	20	1075	30	1000
	1600	140/100H (45)	15	1515	20	1175	20	1100	45	1075
	2000	140/100H (45)	15	1575	30	1285	45	1190	45	1180
	2500	140/100H (45)	15	1600	30	1350	45	1295	45	1255
	3000	140/100H (45)	15	1630	30	1475	60	1420	60	1385
4000	140/100H (45)	15	1660	30	1520	60	1505	60	1440	
Rish Xmer 140/100V(45)										
XM25	200	140/100V (45)	-	-	-	-	1.5	760	3.75	675
	250	140/100V (45)	-	-	-	-	2.5	775	5	690
	300	140/100V (45)	-	-	-	-	3.75	800	7.5	710

# Metering Current Transformer

Busbar Type : Rish Xmer

Standard Secondary current: 5A

Group	Primary Current (A)	Type OD/ID (Axial)	Class 0.2S		Class 0.2		Class 0.5		Class 1	
			VA	LP (INR)	VA	LP (INR)	VA	LP (INR)	VA	LP (INR)
XM25	400	140/100V (45)	-	-	1.5	835	10	820	10	735
	500	140/100V (45)	-	-	2.5	860	10	845	12.5	770
	600	140/100V (45)	2.5	1275	3.75	860	12.5	845	15	770
	750	140/100V (45)	5	1310	5	900	15	885	20	810
	800	140/100V (45)	5	1325	5	920	15	900	20	820
	1000	140/100V (45)	5	1375	10	965	15	950	20	870
	1200	140/100V (45)	10	1425	15	1020	15	1000	30	925
	1250	140/100V (45)	10	1440	15	1030	15	1010	30	930
	1500	140/100V (45)	15	1465	20	1095	30	1075	30	1000
	1600	140/100V (45)	15	1515	20	1175	45	1165	45	1075
	2000	140/100V (45)	15	1575	30	1285	45	1275	45	1180
	2500	140/100V (45)	15	1605	30	1345	45	1330	45	1255
	3000	140/100V (45)	15	1630	30	1475	60	1460	60	1385
Rish Xmer 140/130V(45)										
XR03	400	140/130V (45)	-	-	-	-	3.75	1025	5	920
	500	140/130V (45)	-	-	-	-	3.75	1065	5	960
	600	140/130V (45)	-	-	-	-	3.75	1115	5	1005
	750	140/130V (45)	-	-	-	-	5	1180	7.5	1070
	800	140/130V (45)	-	-	-	-	5	1220	7.5	1105
	1000	140/130V (45)	-	-	5	1365	10	1300	10	1180
	1200	140/130V (45)	-	-	7.5	1445	10	1385	15	1265
	1250	140/130V (45)	-	-	7.5	1490	10	1430	15	1300
	1500	140/130V (45)	-	-	10	1595	15	1530	15	1400
	1600	140/130V (45)	-	-	10	1655	15	1595	15	1460
	2000	140/130V (45)	-	-	15	1810	20	1745	20	1530
	2500	140/130V (45)	-	-	15	1865	20	1745	20	1530
	3000	140/130V (45)	-	-	15	1885	20	1830	20	1630
	3200	140/130V (45)	-	-	15	1905	20	1845	20	1695
	4000	140/130V (45)	-	-	15	1965	20	1905	20	1735
5000	140/130V (45)	-	-	15	2015	20	1980	20	1800	

## Metering Current Transformer

Busbar Type : Rish Xmer

Standard Secondary current: 5A

Group	Primary Current (A)	Type OD/ID (Axial)	Class 0.2S		Class 0.2		Class 0.5		Class 1	
			VA	LP (INR)	VA	LP (INR)	VA	LP (INR)	VA	LP (INR)
Rish Xmer 225/125(50)										
XR04	600	225/125 (50)	-	-	5	1385	5	1275	10	1175
	750	225/125 (50)	-	-	5	1370	10	1265	10	1165
	800	225/125 (50)	-	-	5	1375	10	1275	10	1170
	1000	225/125 (50)	5	1415	10	1385	10	1285	15	1265
	1200	225/125 (50)	5	1445	10	1430	10	1325	15	1310
	1250	225/125 (50)	5	1475	10	1440	10	1370	15	1340
	1500	225/125 (50)	7.5	1505	10	1485	15	1415	30	1380
	1600	225/125 (50)	7.5	1515	10	1485	15	1420	30	1350
	2000	225/125 (50)	10	1530	10	1505	15	1410	30	1380
	2500	225/125 (50)	10	1625	15	1615	30	1515	30	1420
	3000	225/125 (50)	10	1725	15	1695	30	1625	60	1595
	4000	225/125 (50)	15	1910	30	1890	45	1725	60	1690
	5000	225/125 (50)	15	2160	30	2110	100	2045	100	1965
6000	225/125 (50)	15	2290	60	2270	100	2185	100	2145	
Rish Xmer 225/167(50)										
XR05	1000	225/167 (50)	-	-	3.75	1260	5	1230	10	1145
	1200	225/167 (50)	-	-	5	1385	10	1360	15	1315
	1250	225/167 (50)	-	-	5	1395	10	1370	15	1325
	1500	225/167 (50)	5	1475	10	1440	15	1415	30	1385
	1600	225/167 (50)	5	1505	10	1465	15	1435	30	1405
	2000	225/167 (50)	7.5	1515	10	1485	30	1465	30	1430
	2500	225/167 (50)	10	1625	15	1600	30	1545	45	1520
	3000	225/167 (50)	10	1735	15	1695	30	1630	45	1615
	4000	225/167 (50)	10	1805	15	1750	30	1705	45	1690
	5000	225/167 (50)	15	1965	20	1920	30	1865	45	1830
	6000	225/167 (50)	15	2110	20	2070	30	1965	45	1895
7500	225/167 (50)	15	2215	20	2200	30	2110	45	2070	

### Notes :-

Please add INR 120 for 1A secondary current

Please add INR 35 for DIN rail mounting Kit

For any non-standard item, please contact local sales office

## Metering Current Transfomer

### 3 Phase CTs

Standard Secondary current: 5A

Group	Primary Current (A)	Class 0.5		Class 1		Class 3	
		VA	LP (INR)	VA	LP (INR)	VA	LP (INR)
Rish Xmer 3 PH 75/15(60)							
X301	100	-	-	1.0	1070	2.5	965
	125	-	-	1.5	1015	2.5	1005
	150	1.5	1070	1.5	1070	2.5	1060
	160	1.5	1090	1.5	1080	2.5	1070
Rish Xmer 3 PH 105/21(40)							
X302	100	-	-	1.0	745	2	740
	125	-	-	1.5	765	2.5	760
	150	-	-	1.5	775	2.5	765
	160	1.5	795	1.5	785	2.5	775
	200	1.5	835	1.5	820	2.5	820
	250	1.5	880	1.5	880	2.5	860
Rish Xmer 3 PH 140/31(40)							
X303	250	1.5	870	1.5	860	2.5	855
	300	2.5	890	2.5	890	3.75	875
	400	2.5	885	2.5	885	3.75	870
	500	2.5	930	2.5	920	3.75	915
Rish Xmer 3 PH 185/27(45)							
X304	40	-	-	-	-	1.25	800
	60	-	-	-	-	1.5	820
	80	-	-	-	-	1.5	830
	100	-	-	1.5	855	1.5	845
	150	-	-	1.5	900	1.5	885
	200	-	-	2.5	960	2.5	950
	250	-	-	2.5	1040	2.5	1025
	300	-	-	5	1090	5	1075
	400	-	-	5	1080	5	1110
	500	-	-	5	1175	5	1130
Rish Xmer 3 PH 185/37(45)							
X305	300	-	-	2.5	730	2.5	720
	400	-	-	5	790	5	775
	500	-	-	5	900	5	880
	600	-	-	5	920	5	910
	800	-	-	5	920	5	900

#### Notes :-

Please add INR 290 for 1A secondary current

Please add INR 87 for Busbar Mounting Kit

Please add INR 70 for DIN rail Mounting Kit

For any non-standard item, please contact local sales office



# Metering Current Transformer

Split Core

Standard Secondary current: 5A

Group	Primary Current (A)	Class 0.5		Class 1		Class 3	
		VA	LP (INR)	VA	LP (INR)	VA	LP (INR)
Rish Xmer 93/30SC (40)							
XS01	100	-	-	1.5	1285	3.5	1285
	150	-	-	1.75	1285	3.75	1285
	200	-	-	2.5	1285	5	1285
	250	-	-	3.75	1550	6.25	1550
	300	-	-	5	1550	6.25	1550
	400	-	-	6.25	1550	10	1550
Rish Xmer 105/50SC (40)							
XS05	100	-	-	1.5	2810	-	-
	125	-	-	1.5	2835	-	-
	150	-	-	1.75	2860	-	-
	200	1.5	2900	3.75	2900	-	-
	250	2.5	2950	5	2950	-	-
	300	2.5	3000	5	3000	-	-
	400	5	3090	7.5	3090	-	-
	500	5	3175	7.5	3175	-	-
	600	6.25	3265	10	3265	-	-
	800	7.5	3455	12.5	3455	-	-
Rish Xmer 125/50SC (40)							
XS02	250	1	1765	2.5	1765	-	-
	300	1.5	1765	3.75	1765	-	-
	400	2.5	1765	3.75	1765	-	-
	500	3.75	1765	5	1765	-	-
	600	5	1855	7.5	1855	-	-
	750	7.5	1855	10	1855	-	-
	800	7.5	1855	10	1855	-	-
	1000	10	1855	15	1855	-	-
	1200	10	2085	15	2085	-	-
	1250	10	2085	15	2085	-	-
	1500	10	2320	15	2320	-	-
	1600	10	2320	15	2320	-	-
2000	10	2550	15	2550	-	-	

# Metering Current Transformer

## Split Core

Standard Secondary current: 5A

Group	Primary Current (A)	Class 0.5		Class 1		Class 3	
		VA	LP (INR)	VA	LP (INR)	VA	LP (INR)
Rish Xmer 155/80SC (40)							
XS03	250	1.0	2875	2.5	2875	-	-
	300	2.5	2875	3.75	2875	-	-
	400	2.5	2875	3.75	2875	-	-
	500	3.75	2875	5	2875	-	-
	600	5	2875	7.5	2875	-	-
	750	7.5	2875	10	2875	-	-
	800	7.5	3010	10	3010	-	-
	1000	10	3010	15	3010	-	-
	1200	15	3010	30	3010	-	-
	1250	15	3010	30	3010	-	-
	1500	20	3010	45	3010	-	-
	1600	20	3010	45	3010	-	-
	2000	20	3915	45	3915	-	-
	2500	25	3915	45	3915	-	-
3000	30	3915	45	3915	-	-	
Rish Xmer 195/80SC (64)							
XS04	500	1.25	4080	5	4080	-	-
	600	1.25	4080	5	4080	-	-
	750	5	4080	10	4080	-	-
	800	7.5	4265	10	4265	-	-
	1000	10	4265	20	4265	-	-
	1200	15	4400	20	4400	-	-
	1250	15	4400	20	4400	-	-
	1500	20	4630	30	4630	-	-
	1600	20	4630	30	4630	-	-
	2000	25	4860	30	4860	-	-
	2500	25	4860	30	4860	-	-
	3000	30	4860	45	4860	-	-
	4000	30	5100	45	5100	-	-
5000	30	5100	45	5100	-	-	

Notes :-

Please add INR 120 for 1A secondary current

For any non-standard item, please contact local sales office

## Current Transformer - Protection Class CT

Busbar Type : Rish Xmer

Standard Secondary current: 5A

Group	Primary Current (A)	Type OD/ID (Axial)	Class 5P5		Class 10P5		Class 5P10		Class 10P10	
			VA	LP (INR)	VA	LP (INR)	VA	LP (INR)	VA	LP (INR)
Rish Xmer 86/50 (45)										
XP06	100	86/50 (45)	1.5	615	1.5	555	-	-	-	-
	150	86/50 (45)	1.75	650	1.7	590	-	-	-	-
	200	86/50 (45)	2.5	675	2.5	615	-	-	-	-
	250	86/50 (45)	3.75	710	3.75	650	-	-	-	-
	300	86/50 (45)	3.75	735	3.75	675	1	800	1	735
	400	86/50 (45)	5	765	5	700	1	820	1	765
	500	86/50 (45)	5	800	5	735	1	855	1	800
	600	86/50 (45)	5	820	5	765	1	885	1	820
	750	86/50 (45)	7.5	875	7.5	810	1.5	920	1.5	855
800	86/50 (45)	7.5	900	7.5	840	1.5	930	1.5	875	
Rish Xmer 104/30 (45)										
XP07	50	104/30 (45)	2.5	1405	2.5	1350	-	-	-	-
	60	104/30 (45)	2.5	1420	2.5	1360	-	-	1.5	1160
	75	104/30 (45)	2.5	1435	2.5	1375	-	-	1.5	1255
	80	104/30 (45)	2.5	1440	2.5	1385	1.5	1365	1.5	1285
	100	104/30 (45)	5	1460	5	1395	1.5	1385	2.5	1435
	125	104/30 (45)	5	1480	5	1420	1.5	1400	2.5	1450
	150	104/30 (45)	7.5	1515	7.5	1450	2.5	1435	2.5	1375
	200	104/30 (45)	10	1560	10	1505	3.75	1490	3.75	1420
	250	104/30 (45)	10	1615	10	1550	5	1540	5	1490
	300	104/30 (45)	10	1665	10	1610	5	1590	5	1540
	400	104/30 (45)	15	1770	15	1710	5	1695	5	1600
	500	104/30 (45)	15	1875	15	1815	7.5	1800	7.5	1750
600	104/30 (45)	15	1975	15	1915	7.5	1840	10	1865	
Rish Xmer 104/50 (45)										
XP08	150	104/50 (45)	2.5	1130	2.5	1065	-	-	-	-
	200	104/50 (45)	5	1055	5	995	1.5	1100	1.5	1040
	250	104/50 (45)	5	1100	7.5	1145	2.5	1135	2.5	1065
	300	104/50 (45)	7.5	1250	7.5	1185	2.5	1170	2.5	1105
	400	104/50 (45)	7.5	1325	7.5	1265	2.5	1250	2.5	1185

## Current Transformer - Protection Class CT

Busbar Type : Rish Xmer

Standard Secondary current: 5A

Group	Primary Current (A)	Type OD/ID (Axial)	Class 5P5		Class 10P5		Class 5P10		Class 10P10	
			VA	LP (INR)	VA	LP (INR)	VA	LP (INR)	VA	LP (INR)
XP08	500	104/50 (45)	10	1405	10	1350	2.5	1330	2.5	1265
	600	104/50 (45)	10	1485	10	1425	2.5	1405	2.5	1325
	750	104/50 (45)	10	1600	10	1540	5	1530	5	1465
	800	104/50 (45)	10	1645	10	1585	5	1570	5	1505
	1000	104/50 (45)	10	1800	10	1735	5	1730	5	1660
Rish Xmer 104/60 (45)										
XP09	100	104/60 (45)	1.5	880	1.5	820	-	-	-	-
	150	104/60 (45)	2.5	915	2.5	850	1	870	1	815
	200	104/60 (45)	3.75	945	3.75	885	1	870	1	800
	250	104/60 (45)	5	960	5	1010	1.5	910	1.5	840
	300	104/60 (45)	5	1010	5	950	1.75	935	1.75	875
	400	104/60 (45)	7.5	1080	7.5	1020	1.75	1005	1.75	935
	500	104/60 (45)	7.5	1150	7.5	1090	1.75	1040	1.75	980
	600	104/60 (45)	7.5	1215	7.5	1155	1.75	1070	1.75	1010
	750	104/60 (45)	10	1180	10	1120	1.75	1110	1.75	1045
800	104/60 (45)	10	1215	10	1155	1.75	1140	1.75	1075	
Rish Xmer 140/60 (45)										
XP10	200	140/60 (45)	7.5	2085	7.5	2025	2.5	2010	2.5	1945
	250	140/60 (45)	7.5	2135	7.5	2075	2.5	2060	2.5	1965
	300	140/60 (45)	10	2185	10	2125	3.75	2110	3.75	1995
	400	140/60 (45)	10	2290	10	2230	5	2215	5	2130
	500	140/60 (45)	10	2395	10	2330	5	2320	5	2205
	600	140/60 (45)	12.5	2500	12.5	2440	5	2420	5	2250
	750	140/60 (45)	12.5	2655	12.5	2595	5	2575	5	2380
	800	140/60 (45)	12.5	2705	12.5	2645	5	2625	5	2405
	1000	140/60 (45)	12.5	2910	12.5	2855	7.5	2835	7.5	2585
	1200	140/60 (45)	12.5	3120	12.5	3055	7.5	3045	7.5	2800
	1250	140/60 (45)	12.5	3170	12.5	3115	7.5	3095	7.5	2900
	1500	140/60 (45)	15	3430	15	3370	10	3355	10	3005

### Notes :-

Please add INR 120 for 1A secondary current

Please add INR 35 for DIN rail mounting Kit

For any non-standard item, please contact local sales office

## Current Transformer - Protection Class CT

Busbar Type : Rish Xmer

Standard Secondary current: 5A

Group	Primary Current (A)	Type OD/ID (Axial)	Class 5P5		Class 10P5		Class 5P10		Class 10P10	
			VA	LP (INR)	VA	LP (INR)	VA	LP (INR)	VA	LP (INR)
XP10	1600	140/60 (45)	15	3530	15	3465	10	3460	10	3130
	2000	140/60 (45)	20	3945	20	3890	12.5	3670	12.5	3230
Rish Xmer 140/80 (45)										
XP11	200	140/80 (45)	5	1795	5	1730	2.5	1870	2.5	1815
	250	140/80 (45)	5	1840	5	1770	2.5	1910	2.5	1830
	300	140/80 (45)	7.5	1875	7.5	1815	3.75	1955	3.75	1865
	400	140/80 (45)	10	1965	10	1900	5	2045	5	1950
	500	140/80 (45)	10	2050	10	1980	5	2125	5	2015
	600	140/80 (45)	10	2135	10	2070	5	2205	5	2045
	750	140/80 (45)	10	2265	10	2200	5	2340	5	2085
	800	140/80 (45)	10	2305	10	2240	5	2380	5	2165
	1000	140/80 (45)	10	2330	10	2270	5	2085	5	1845
	1200	140/80 (45)	10	2380	10	2320	5	2235	5	1990
	1250	140/80 (45)	10	2405	10	2345	5	2270	5	2045
	1500	140/80 (45)	15	2440	15	2380	7.5	2455	7.5	2095
	1600	140/80 (45)	15	2465	15	2385	7.5	2530	7.5	2200
	2000	140/80 (45)	20	2585	20	2515	10	2820	10	2380
2500	140/80 (45)	20	2745	20	2605	10	3185	10	2745	
Rish Xmer 140/100 (45)										
XP12	250	140/100 (45)	2.5	1040	2.5	980	-	-	-	-
	300	140/100 (45)	2.5	1070	2.5	1010	-	-	-	-
	400	140/100 (45)	3.75	1135	3.75	1070	-	-	-	-
	500	140/100 (45)	5	1190	5	1135	-	-	-	-
	600	140/100 (45)	5	1255	5	1190	1	1175	1	1115
	750	140/100 (45)	7.5	1350	7.5	1285	1	1275	1	1205
	800	140/100 (45)	7.5	1375	7.5	1315	1	1295	1	1240
	1000	140/100 (45)	10	1435	10	1375	1	1420	1	1360
	1200	140/100 (45)	10	1465	10	1400	1	1385	1	1315
	1250	140/100 (45)	10	1480	10	1420	1	1405	1	1340
	1500	140/100 (45)	10	1615	10	1555	1.25	1540	1.25	1480
	1600	140/100 (45)	10	1670	10	1615	1.25	1595	1.25	1535
	2000	140/100 (45)	10	1890	10	1835	1.25	1815	1.25	1755

## Current Transformer - Protection Class CT

Busbar Type : Rish Xmer

Standard Secondary current: 5A

Group	Primary Current (A)	Type OD/ID (Axial)	Class 5P5		Class 10P5		Class 5P10		Class 10P10	
			VA	LP (INR)	VA	LP (INR)	VA	LP (INR)	VA	LP (INR)
XP12	2500	140/100 (45)	10	2170	10	2100	2.5	2090	2.5	2025
	3000	140/100 (45)	10	2440	10	2380	2.5	2360	2.5	2305
Rish Xmer 225/60 (50)										
XP13	100	225/60 (50)	10	2540	10	2620	-	-	-	-
	150	225/60 (50)	10	2605	15	2490	5	2770	-	-
	200	225/60 (50)	10	2650	15	2515	7.5	2820	10	2760
	250	225/60 (50)	15	2745	15	2615	10	2845	15	2820
	300	225/60 (50)	15	2865	15	2710	10	2880	15	2920
	400	225/60 (50)	15	2825	15	2695	15	2890	15	2755
	500	225/60 (50)	15	2845	15	2720	15	2985	15	2845
	600	225/60 (50)	15	2890	15	2770	15	3080	15	2945
	750	225/60 (50)	15	2945	15	2825	15	3230	15	3090
	800	225/60 (50)	15	3010	15	2890	15	3270	15	3130
	1000	225/60 (50)	15	3125	15	2995	15	3465	15	3325
	1200	225/60 (50)	15	3270	15	3150	15	3545	15	3410
	1250	225/60 (50)	15	3285	15	3165	15	3565	15	3425
	1500	225/60 (50)	15	3410	15	3285	15	3650	15	3520
2000	225/60 (50)	15	3500	15	3375	15	3870	15	3735	
Rish Xmer 225/125 (50)										
XP14	600	225/125 (50)	5	1625	5	1485	-	-	-	-
	750	225/125 (50)	5	1680	10	1830	-	-	-	-
	800	225/125 (50)	5	1700	10	1840	-	-	-	-
	1000	225/125 (50)	10	1905	10	1765	-	-	-	-
	1200	225/125 (50)	10	2045	15	2220	1.5	2205	2.5	2285
	1250	225/125 (50)	10	2060	15	2255	1.5	2240	2.5	2320
	1500	225/125 (50)	15	2200	15	2045	2.5	2060	2.5	1905
	1600	225/125 (50)	15	2270	15	2135	2.5	2200	2.5	1980
	2000	225/125 (50)	15	2420	15	2270	3.75	2515	5	2540
	2500	225/125 (50)	15	2515	15	2360	5	2770	7.5	2820
	3000	225/125 (50)	15	2660	20	2710	5	2900	7.5	3020
	4000	225/125 (50)	15	2760	20	2820	5	2955	7.5	3125
5000	225/125 (50)	20	2955	20	2770	5	3105	10	3245	
Rish Xmer 225/167 (50)										
XP15	1000	225/167 (50)	5	2060	5	1875	-	-	-	-
	1200	225/167 (50)	5	2075	7.5	2100	1.5	2255	2.5	2205
	1250	225/167 (50)	5	2100	7.5	2135	1.5	2285	2.5	2240
	1500	225/167 (50)	5	2200	7.5	2220	2.5	2325	3.75	2320
	1600	225/167 (50)	5	2220	7.5	2255	2.5	2365	3.75	2305
	2000	225/167 (50)	7.5	2405	12.5	2440	3.75	2575	5	2605
	2500	225/167 (50)	10	2500	15	2560	3.75	2620	7.5	2585
	3000	225/167 (50)	15	2585	20	2680	7.5	2920	10	2900
	4000	225/167 (50)	20	2900	20	2725	7.5	3105	12.5	3200
	5000	225/167 (50)	20	3080	20	2880	7.5	3185	12.5	3270
6000	225/167 (50)	20	3095	20	2895	7.5	3205	12.5	3290	

Note :-

Please add INR 120 for 1A secondary current

Please add INR 35 for DIN rail Mounting Kit

For any non-standard item, please contact local sales office

## Current Transformers - Protection Class CT

TW-E series (without encapsulation)

Standard Secondary current: 5A

Group	Primary Current (A)	Type OD/ID (Axial)	Class 5P10	
			VA	LP (INR)
Protection Classs CT (Rish TW-E Series)				
XP01	100/5A	140 / 30 (140)	15	5765
	150/5A	140 / 30 (100)	15	3530
	200/5A	140 / 50 (100)	15	2985
	250/5A	140 / 50 (90)	15	2985
	400/5A	140 / 60 (80)	15	1730
	600/5A	140 / 60 (60)	15	1625
	800/5A	140 / 80 (80)	15	1650
	1000/5A	160 / 105 (70)	15	1705
	1200/5A	160 / 105 (70)	15	1730
	1250/5A	160 / 105 (70)	15	1730
	1600/5A	180 / 115 (50)	15	1780
	2000/5A	185 / 130 (50)	15	1815

Note :-

Please add INR 120 for 1A secondary current

For any non-standard item, please contact local sales office

# Metering Current Transformers

Resin Cast CT

Standard Secondary current : 5A



Group	Primary Current (A)	Type OD/ID (Axial)	Class 0.5		Class 1.0	
			VA	LP (INR)	VA	LP (INR)
LTRC-180/30(50)						
LTRC-1	100	80/30(50)	2.5	1210	5	860
	125	80/30(50)	2.5	1210	5	865
	150	80/30(50)	3.75	1240	5	765
LTRC-2 90/50(40)						
LTRC-2	200	90/50(40)	3.75	1000	7.5	705
	250	90/50(40)	3.75	1030	10	805
	300	90/50(40)	5	1105	10	805
LTRC-3 110/72(40)						
LTRC-3	400	110/72(40)	5	1180	10	860
	500	110/72(40)	7.5	1190	15	870
	600	110/72(40)	15	1230	15	900
	630	110/72(40)	15	1230	15	905
LTRC-4 135/85(40)						
LTRC-4	800	135/85(40)	15	1420	15	955
	1,000	135/85(40)	15	1495	15	1015
	1,200	135/85(40)	15	1670	15	1070
LTRC-5 165/115(40)						
LTRC-5	1,500	165/115(40)	15	2205	15	1285
	1,600	165/115(40)	15	2400	15	1375
	2,000	165/115(40)	15	2595	15	1520
LTRC-6 195/130(40)						
LTRC-6	2,500	195/130(40)	15	3415	15	2020
	3,000	195/130(40)	15	3770	15	2170
	3,200	195/130(40)	15	3865	15	2610
LTRC-7 230/165(40)						
LTRC-7	3,000	230/165(40)	15	3930	15	2725
	3,200	230/165(40)	15	4075	15	2835
LTRC-8 295/200(40)						
LTRC-8	4,000	295/200(40)	15	5775	15	3765
	5,000	295/200(40)	15	6825	15	4810

Note :-

Please add INR 120 for 1A secondary current

For any non-standard item, please contact local sales office



## Protection Current Transformers

Resin Cast CT

Standard Secondary current : 5A



Group	Primary Current (A)	Type OD/ID (Axial)	Class 5P5		Class 5P10	
			VA	LP (INR)	VA	LP (INR)
LTRC-180/30(50)						
LTRC-1	100	80/30(50)	1.5	1325	-	-
	125	80/30(50)	1.5	1335	-	-
	150	80/30(50)	-	-	1	1430
LTRC-2 90/50(40)						
LTRC-2	200	90/50(40)	1.25	1850	-	-
	250	90/50(40)	1.5	1850	-	-
	300	90/50(40)	1.5	1860	-	-
LTRC-3 110/72(40)						
LTRC-3	400	110/72(40)	1	1880	-	-
	500	110/72(40)	1	1860	-	-
	600	110/72(40)	1.5	1870	-	-
	630	110/72(40)	1.5	1880	-	-
LTRC-4 135/85(40)						
LTRC-4	800	135/85(40)	2.5	2230	-	-
	1,000	135/85(40)	3.75	2230	-	-
	1,200	135/85(40)	5	2280	-	-
	1,250	135/85(40)	5	2320	-	-
LTRC-5 165/115(40)						
LTRC-5	1,250	165/115(40)	2.5	3240	-	-
	1,500	165/115(40)	3.75	3240	-	-
	1,600	165/115(40)	5	3240	-	-
	2,000	165/115(40)	6.25	3280	-	-
LTRC-6 195/130(40)						
LTRC-6	2,500	195/130(40)	-	-	3.75	4420
	3,000	195/130(40)	-	-	3.75	4480
	3,200	195/130(40)	-	-	3.75	4530
LTRC-7 230/165(40)						
LTRC-7	3,000	230/165(40)	-	-	3.75	4840
	3,200	230/165(40)	-	-	3.75	4840
LTRC-8 295/200(40)						
LTRC-8	4,000	295/200(40)	-	-	10	6440
	5,000	295/200(40)	-	-	10	7320

## Protection Current Transformers

Resin Cast CT

Secondary current : 1A



Group	Primary Current (A)	Type OD/ID (Axial)	Class 5P5		Class 5P10	
			VA	LP (INR)	VA	LP (INR)
LTRC-1 80/30(50)						
LTRC-1	100	80/30(50)	1.5	1460	-	-
	125	80/30(50)	1.5	1470	-	-
	150	80/30(50)	-	-	1	1575
LTRC-2 90/50(40)						
LTRC-2	200	90/50(40)	1.5	2035	-	-
	250	90/50(40)	2.5	2035	-	-
	300	90/50(40)	-	-	1	2050
LTRC-3 110/72(40)						
LTRC-3	400	110/72(40)	1	2070	-	-
	500	110/72(40)	1.5	2050	-	-
	600	110/72(40)	1.75	2060	-	-
	630	110/72(40)	1.75	2070	-	-
LTRC-4 135/85(40)						
LTRC-4	800	135/85(40)	-	-	1.75	2455
	1,000	135/85(40)	-	-	1.75	2455
	1,200	135/85(40)	-	-	2.5	2510
	1,250	135/85(40)	-	-	2.5	2555
LTRC-5 165/115(40)						
LTRC-5	1,250	165/115(40)	-	-	1.75	3565
	1,500	165/115(40)	-	-	2.5	3760
	1,600	165/115(40)	-	-	2.5	3850
	2,000	165/115(40)	-	-	2.5	4340
LTRC-6 195/130(40)						
LTRC-6	2,500	195/130(40)	-	-	5	4865
	3,000	195/130(40)	-	-	6.25	4950
	3,200	195/130(40)	-	-	7.5	5120
LTRC-7 230/165(40)						
LTRC-7	3,000	230/165(40)	-	-	5	5325
	3,200	230/165(40)	-	-	5	5325
LTRC-8 295/200(40)						
LTRC-8	4,000	295/200(40)	-	-	15	7085
	5,000	295/200(40)	-	-	20	8055

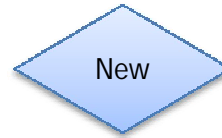
## Rish Xmer Sigma

Standard Secondary current: 5A

Group	Primary Current (A)	Type OD/ID (Axial)	Class 0.5		Class 1	
			VA	LP (INR)	VA	LP (INR)
XU01	5+5	Rish Xmer Sigma 75	5	1195	5	1070
	5+5	Rish Xmer Sigma 75	10	1205	10	1085
	5+5	Rish Xmer Sigma 75	15	1225	15	1110
	5+5	Rish Xmer Sigma 75	-	-	20	1205
	5+5	Rish Xmer Sigma 75	-	-	25	1225
	5+5+5	Rish Xmer Sigma 75	5	1265	5	1085
	5+5+5	Rish Xmer Sigma 75	10	1280	10	1105
	5+5+5	Rish Xmer Sigma 75	15	1305	15	1125
	5+5+5	Rish Xmer Sigma 75	-	-	20	1280
	5+5+5	Rish Xmer Sigma 75	-	-	25	1305
	5+5+5+5	Rish Xmer Sigma 75	5	1315	5	1095
	5+5+5+5	Rish Xmer Sigma 75	10	1330	10	1110
	5+5+5+5	Rish Xmer Sigma 75	15	1340	15	1125
	5+5+5+5	Rish Xmer Sigma 75	-	-	20	1325
	5+5+5+5	Rish Xmer Sigma 75	-	-	25	1340
	5+5+5+5+5	Rish Xmer Sigma 150	5	1380	5	1185
	5+5+5+5+5	Rish Xmer Sigma 150	10	1395	10	1205
	5+5+5+5+5	Rish Xmer Sigma 150	15	1430	15	1220
	5+5+5+5+5	Rish Xmer Sigma 150	-	-	20	1395
	5+5+5+5+5	Rish Xmer Sigma 150	-	-	25	1430
	5+5+5+5+5+5	Rish Xmer Sigma 150	5	1435	5	1215
	5+5+5+5+5+5	Rish Xmer Sigma 150	10	1455	10	1225
	5+5+5+5+5+5	Rish Xmer Sigma 150	15	1475	15	1240
	5+5+5+5+5+5	Rish Xmer Sigma 150	-	-	20	1455
	5+5+5+5+5+5	Rish Xmer Sigma 150	-	-	25	1475
	5+5+5+5+5+5+5	Rish Xmer Sigma 150	5	1455	5	1250
	5+5+5+5+5+5+5	Rish Xmer Sigma 150	10	1475	10	1275
	5+5+5+5+5+5+5	Rish Xmer Sigma 150	15	1495	15	1290
	5+5+5+5+5+5+5	Rish Xmer Sigma 150	-	-	20	1475
	5+5+5+5+5+5+5	Rish Xmer Sigma 150	-	-	25	1495
5+5+5+5+5+5+5+5	Rish Xmer Sigma 150	5	1515	5	1320	
5+5+5+5+5+5+5+5	Rish Xmer Sigma 150	10	1545	10	1350	
5+5+5+5+5+5+5+5	Rish Xmer Sigma 150	15	1580	15	1370	
5+5+5+5+5+5+5+5	Rish Xmer Sigma 150	-	-	20	1535	
5+5+5+5+5+5+5+5	Rish Xmer Sigma 150	-	-	25	1580	

# Metering Current Transformer

## Compact Split Core



Group	CT ratio	Class 1		Class 3	
		VA	LP (INR)	VA	LP (INR)
Compact Split CT 36-18					
XCS1	60/1A	-	-	0.2	1,325
	75/1A	-	-	0.2	1,335
	80/1A	-	-	0.2	1,340
	100/1A	-	-	0.2	1,345
Compact Split CT 50-18					
XCS2	100/1A	-	-	0.2	1850
	125/1A	-	-	0.2	1850
	150/1A	0.2	1,860	-	-
	150/5A	0.2	1,860	-	-
	200/1A	0.2	1,870	-	-
	200/5A	0.2	1,870	-	-
	250/1A	1.0	1,880	-	-
	250/5A	1.0	1,880	-	-
Compact Split CT 50-32					
XCS3	200/1A	-	-	0.2	1,870
	250/1A	0.2	1,880	-	-
	250/5A	0.2	1,880	-	-
	300/1A	0.2	1,890	-	-
	300/5A	0.2	1,890	-	-
	400/1A	0.2	1,900	-	-
	400/5A	0.2	1,900	-	-
	500/1A	0.2	1,910	-	-
	500/5A	0.2	1,910	-	-

## Breaker Control (TNC) Switches

Description	LP (INR) TSR	
	25 A	32 A
TNC 1NO 1NC 60D	810	975
TNC 2NO 2NC 60D	985	1175



## Spring Return Switches

Description	LP (INR) CSR	
	16 A	25 A
ON OFF SPRING RETURN 90D 1P OFF	480	730
ON OFF SPRING RETURN 90D 2P OFF	505	825
ON OFF SPRING RETURN 90D 3P OFF	575	990
ON OFF SPRING RETURN 90D 4P OFF	675	1080



Description	LP (INR) CSR	
	16 A	25 A
DOUBLE THROW SPRI RETURN 60D 1P 2W OFF	505	825
DOUBLE THROW SPRI RETURN 60D 2P 2W OFF	740	1080
DOUBLE THROW SPRI RETURN 60D 3P 2W OFF	810	1345



Description	LP (INR) CSR	
	16 A	25 A
SPRING RETURN 60D 1P 2W W/OFF	460	825
SPRING RETURN 60D 2P 2W W/OFF	675	1080
SPRING RETURN 60D 3P 2W W/OFF	735	1345



## RISHCAM Instrumentation Switches

Description	LP (INR) CST4			
	6A**	10A	16A	20A
Ammeter Selector Switch - Line Currents with OFF, 4 Pos.	205	250	310	345
Ammeter Selector Switch - Line Currents with Neutral with OFF, 5 Pos.	200	240	300	390
Voltmeter Selector Switch - Voltage between phases with OFF, 4 Pos.	145	225	275	320
Voltmeter Selector Switch - Voltage between phases and individual phases to neutral with OFF, 7 Pos.	265	450	520	570
Voltmeter Selector Switch - Voltage between phases to neutral with OFF, 4 Pos.	265	305	380	415

## RISHCAM Changeover Switches

RISHCAM - COFF 60	Description	LP (INR)									
		CST1				CSS1				CSH1	
		6A**	10A	16A	20A	25A	32A	40A	63A	100A	200A
With OFF 60 Deg	1P 2W	125	235	275	280	290	325	435	585	2925	4225
	2P 2W	165	280	310	365	395	455	595	890	4280	6440
	3P 2W	205	345	415	515	590	635	750	1190	5540	8240
	4P 2W	250	405	480	630	780	825	910	1510	7070	10390

RISHCAM - COFF 90	Description	LP (INR)									
		CST1				CSS1				CSH1	
		6A**	10A	16A	20A	25A	32A	40A	63A	100A	200A
With OFF 90 Deg	1P 2W	125	235	275	280	290	325	435	585	2925	4225
	2P 2W	165	280	310	365	395	455	595	890	4280	6440
	3P 2W	205	345	415	515	590	635	750	1190	5540	8240
	4P 2W	250	405	480	630	780	825	910	1510	7070	10390

RISHCAM - CWOFF 90	Description	LP (INR)									
		CST1				CSS1				CSH1	
		6A**	10A	16A	20A	25A	32A	40A	63A	100A	200A
Without OFF 90 Deg	1P 2W	125	235	275	280	290	325	435	585	2925	4225
	2P 2W	165	280	310	365	395	455	595	890	4280	6440
	3P 2W	205	345	415	515	590	635	750	1190	5540	8240
	4P 2W	250	405	480	630	780	825	910	1510	7070	10390

RISHCAM - PCF90	Description	LP (INR)									
		CST1				CSS1				CSH1	
		6A**	10A	16A	20A	25A	32A	40A	63A	100A	200A
"Phase Changeover With OFF 90 Deg"	1P 3W	145	200	235	275	315	360	530	625	2440	3490
	2P 3W	190	235	305	380	455	520	605	790	3590	5035
	3P 3W	225	280	320	435	550	575	900	1225	3830	5365

## RISHCAM Isolator Switches

		LP (INR)									
RISHCAM - I60	Description	CST3					CSS3			CSH3	
		6A**	10A	16A	20A	20A	32A	40A	63A	100A	200A
Isolator 60 Deg	1P ON-OFF	95	185	220	230	235	290	370	435	2265	2925
	2P ON-OFF	125	210	250	270	285	340	450	550	2835	3805
	3P ON-OFF	135	280	290	330	375	415	520	750	3485	4760
	4P ON-OFF	165	285	310	380	460	490	595	900	4075	5715

		LP (INR)									
RISHCAM - I90	Description	CST3					CSS3			CSH3	
		6A**	10A	16A	20A	25A	32A	40A	63A	100A	200A
Isolator 90 Deg	1P ON-OFF	95	180	210	220	225	280	355	415	2180	2815
	2P ON-OFF	120	205	240	260	275	325	430	535	2720	3660
	3P ON-OFF	130	275	280	320	360	405	500	720	3350	4575
	4P ON-OFF	165	285	310	380	460	490	595	900	4075	5715

		LP (INR)									
RISHCAM - I90 CR	Description	CST3					CSS3			CSH3	
		6A**	10A	16A	20A	25A	32A	40A	63A	100A	200A
"Isolator 90 Deg Complete Rotation"	1P ON-OFF	95	180	210	220	225	280	355	415	2180	2815
	2P ON-OFF	120	205	240	260	275	325	430	535	2720	3660
	3P ON-OFF	130	275	280	320	360	405	500	720	3350	4575
	4P ON-OFF	165	285	310	380	460	490	595	900	4075	5715

		LP (INR)									
RISHCAM - I45	Description	CST3					CSS3			CSH3	
		6A**	10A	16A	20A	25A	32A	40A	63A	100A	200A
Isolator 45 Deg	1P ON-OFF	110	150	210	220	225	320	400	470	-	-
	2P ON-OFF	145	190	245	280	315	360	485	605	-	-
	3P ON-OFF	175	225	270	355	410	485	570	825	-	-

## RISHCAM Multistep Switches

RISHCAM - MOFF (3 WAY)	Description	LP (INR)									
		CST2				CSS2				CSH2	
		6A**	10A	16A	20A	25A	32A	40A	63A	100A	200A
With OFF 90 Deg	1P 3W	145	270	285	295	280	350	510	570	2975	4510
	2P 3W	205	310	345	410	465	500	720	810	4370	6900
	3P 3W	290	415	590	635	695	755	965	1245	5705	9055
	4P 3W	370	535	715	785	860	945	1285	1500	7205	11355

RISHCAM - MOFF (4 WAY)	Description	LP (INR)									
		CST2				CSS2				CSH2	
		6A**	10A	16A	20A	25A	32A	40A	63A	100A	200A
With OFF 60 Deg	1P 4W	170	240	415	455	495	545	620	835	2635	3830
	2P 4W	290	450	495	505	520	600	770	975	3830	5985
	3P 4W	405	405	780	820	860	990	1320	1500	10550	13615

RISHCAM - MOFF (5 WAY)	Description	LP (INR)									
		CST2				CSS2				CSH2	
		6A**	10A	16A	20A	25A	32A	40A	63A	100A	200A
With OFF 60 Deg	1P 5W	185	380	480	545	615	625	770	895	2635	3830
	2P 5W	340	585	635	735	835	975	1005	1255	3830	5985

RISHCAM - MOFF (5 WAY)	Description	LP (INR)									
		CST2				CSS2				CSH2	
		6A**	10A	16A	20A	25A	32A	40A	63A	100A	200A
With OFF 45 Deg	1P 6W	245	250	465	510	550	630	655	1055	-	-
	2P 6W	405	400	675	755	850	1035	1320	1725	-	-

RISHCAM - MOFF (7 WAY)	Description	LP (INR)									
		CST2				CSS2				CSH2	
		6A**	10A	16A	20A	25A	32A	40A	63A	100A	200A
With OFF 45 Deg	1P 7W	250	440	500	550	625	650	675	1045	-	-

RISHCAM - MOFF (8 WAY)	Description	LP (INR)									
		CST2				CSS2				CSH2	
		6A**	10A	16A	20A	25A	32A	40A	63A	100A	200A
With OFF 30 Deg	1P 8W	280	345	495	575	-	-	-	-	-	-

RISHCAM - MOFF (9 WAY)	Description	LP (INR)									
		CST2				CSS2				CSH2	
		6A**	10A	16A	20A	25A	32A	40A	63A	100A	200A
With OFF 30 Deg	1P 9W	290	415	495	610	-	-	-	-	-	-



## RISHCAM Multistep Switches

RISHCAM - MOFF (10 WAY)	Description	LP (INR)									
		CST2				CSS2				CSH2	
		6A**	10A	16A	20A	25A	32A	40A	63A	100A	200A
With OFF 30 Deg	1P 10W	340	445	695	930	-	-	-	-	-	-

RISHCAM - MOFF (11 WAY)	Description	LP (INR)									
		CST2				CSS2				CSH2	
		6A**	10A	16A	20A	25A	32A	40A	63A	100A	200A
With OFF 30 Deg	1P 11W	405	485	630	780	-	-	-	-	-	-

RISHCAM - MWOFF (3 WAY)	Description	LP (INR)									
		CST2				CSS2				CSH2	
		6A**	10A	16A	20A	25A	32A	40A	63A	100A	200A
Without OFF 60 Deg	1P 3W	135	255	290	295	360	375	575	650	2440	3950
	2P 3W	205	385	410	545	695	650	720	850	4370	5625
	3P 3W	290	480	615	650	695	755	1055	1245	4670	9140
	4P 3W	370	535	705	805	880	935	2050	2260	5025	10000

RISHCAM - MWOFF (4 WAY)	Description	LP (INR)									
		CST2				CSS2				CSH2	
		6A**	10A	16A	20A	25A	32A	40A	63A	100A	200A
Without OFF 90 Deg	1P 4W	155	275	355	390	435	455	625	875	2975	3155
	2P 4W	225	405	415	480	510	560	755	975	4590	7410
	3P 4W	310	485	665	735	815	900	980	1310	6045	9995

## RISHCAM Multistep Switches

RISHCAM - MWOFF (5 WAY)	Description	LP (INR)									
		CST2				CSS2				CSH2	
		6A**	10A	16A	20A	25A	32A	40A	63A	100A	200A
Without OFF 60 Deg	1P 5W	185	290	380	435	485	605	770	980	2635	3830
	2P 5W	340	325	520	670	780	840	1080	1370	3830	9385

RISHCAM - MWOFF (6 WAY)	Description	LP (INR)									
		CST2				CSS2				CSH2	
		6A**	10A	16A	20A	25A	32A	40A	63A	100A	200A
Without OFF 60 Deg	1P 6W	200	245	480	510	545	625	725	915	4370	8550
	2P 6W	395	475	640	805	970	990	1005	1280	8705	11185

RISHCAM - MWOFF (7 WAY)	Description	LP (INR)									
		CST2				CSS2				CSH2	
		6A**	10A	16A	20A	25A	32A	40A	63A	100A	200A
Without OFF 45 Deg	1P 7W	245	310	360	500	640	645	770	1150	-	-

RISHCAM - MWOFF (8 WAY)	Description	LP (INR)									
		CST2				CSS2				CSH2	
		6A**	10A	16A	20A	25A	32A	40A	63A	100A	200A
Without OFF 45 Deg	1P 8W	250	520	540	575	650	685	760	1100	-	-

RISHCAM - MWOFF (9 WAY)	Description	LP (INR)									
		CST2				CSS2				CSH2	
		6A**	10A	16A	20A	25A	32A	40A	63A	100A	200A
Without OFF 30 Deg	1P 9W	290	410	855	610	-	-	-	-	-	-

RISHCAM - MWOFF (10 WAY)	Description	LP (INR)									
		CST2				CSS2				CSH2	
		6A**	10A	16A	20A	25A	32A	40A	63A	100A	200A
Without OFF 30 Deg	1P 10W	310	550	950	930	-	-	-	-	-	-

RISHCAM - MWOFF (11 WAY)	Description	LP (INR)									
		CST2				CSS2				CSH2	
		6A**	10A	16A	20A	25A	32A	40A	63A	100A	200A
Without OFF 30 Deg	1P 11W	575	480	545	780	-	-	-	-	-	-

RISHCAM - MWOFF (12 WAY)	Description	LP (INR)									
		CST2				CSS2				CSH2	
		6A**	10A	16A	20A	25A	32A	40A	63A	100A	200A
Without OFF 30 Deg	1P 12W	610	500	705	815	-	-	-	-	-	-

NOTE :-

\*\*6A Cam Switch with IP-20 Protection and Name plate is available on request with additional price (LP) of INR 30

## Shunts

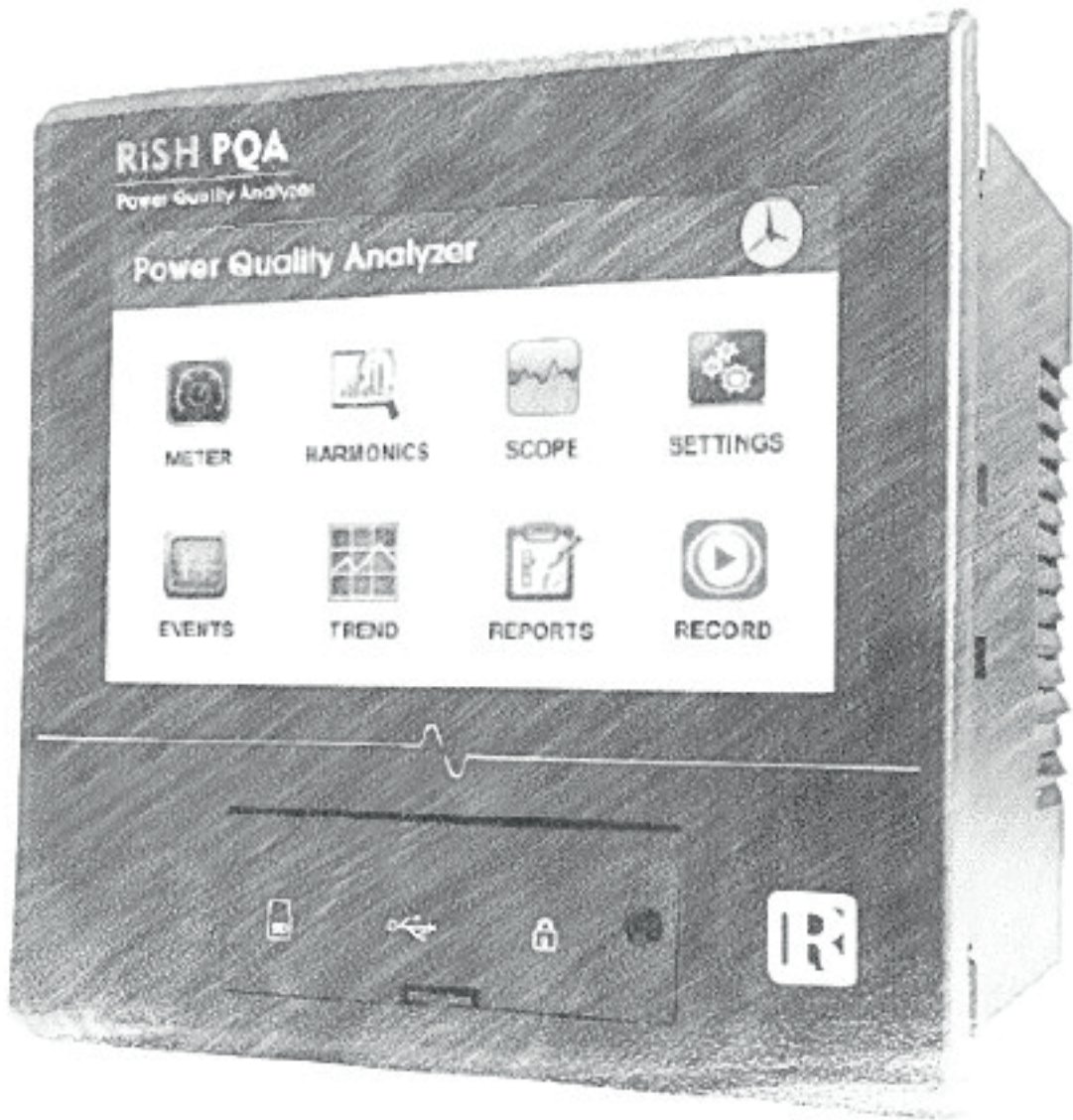
Accuracy Class 0.5

Standard Accuracy Class 0.5				
Group	Measuring Range (A)	LP (INR)		
		50/60/75mV	100mV	150mV
YN01	1	340	420	480
	5	280	450	400
	10	320	450	420
	15	280	450	400
	20	300	450	420
	25	340	450	400
	30	300	440	390
	40	330	440	580
	50	320	440	660
	60	330	500	740
	75	340	500	850
	100	380	600	940
	125	500	810	1,050
	150	500	810	1,220
	175	870	1,010	1,440
	200	870	1,090	1,550
	250	930	1,220	1,790
	300	1,050	1,270	1,880
	400	1,310	1,650	2,280
	500	1,450	1,870	2,680
	600	1,590	2,100	3,040
	750	1,780	2,200	3,630
	800	1,780	2,950	4,470
	1000	2,460	3,220	6,250
	1200	3,150	3,930	8,130
	1250	3,150	4,350	8,750
	1500	3,550	4,740	9,640
	2000	4,740	6,700	14,280
	2500	5,440	7,930	15,180
	3000	6,300	10,260	15,180
4000	15,120	19,320	27,660	
5000	17,340	20,970	30,340	
6000	26,000	26,770	39,270	
7500	28,350	32,950	44,610	
10000	62,220	66,510	71,380	
15000	66,920	74,950	1,05,280	

Notes :-

For 0.2 CI Shunt, multiply the standard price by 1.2

For any non-standard item, please contact local sales office



**Digital Expertise**

## Digital Panel Meters

Model	KMAT	Size	Description	Auxiliary Supply	LP (INR)
<b>Programmable AC Ammeter</b>					
Rish Eine I	EP99	48 x 96 x 81.5 mm 96 x 96 x 35 mm	Input : 1A /5A (Programmable) Display : 14 mm LED Display 1 Phase Network Accuracy Class : 1.0 4 Digit	40...300V AC/DC 20...40V AC / 20...60V DC	900
			Input 1A /5A (Programmable) Display : 14 mm LED Display 3Ph 3W/4W Network Accuracy Class : 1.0 4 Digit		1,270
<b>Programmable AC Voltmeter</b>					
Rish Eine V	EP99	48 x 96 x 81.5 mm 96 x 96 x 35 mm	Input : 57.5 -300 V L-N (Programmable) Display : 14 mm LED Display 1 Phase Network Accuracy Class : 1.0 4 Digit	40...300V AC/DC 20...40V AC / 20...60V DC	860
			Input : 100- 500 V L-L (Programmable) Display : 14 mm LED Display 3Ph 3W/4W Network Accuracy Class : 1.0 4 Digit		1,270
<b>Non- Programmable AC Ammeter</b>					
Rish ACI	DA14	72 x 144 x 94 mm	Input : 1 / 5A Display : 26 mm LED Display Single Phase Network Accuracy Class : 1 4 1/2 Digit	110 / 230V AC	3,600
				24 / 110 / 220V DC	4,550
<b>Non- Programmable AC Voltmeter</b>					
Rish ACV	DA14	72 x 144 x 94 mm	Input : 110 / 240 / 500V Display : 26 mm LED Display Single Phase Network Accuracy Class : 1 4 1/2 Digit	110 / 230V AC	3,600
				24 / 110 / 220V DC	4,550
Accuracy (Optional)			Accuracy Class 0.5 for Rish Eine, Rish ACI / ACV		210
<b>Programmable DC Ammeter</b>					
Rish Eine +	EI99	96 x 96 x 35 mm 48 x 96 x 138 mm	Input : -10...0...+10mA, -20...0...+20mA, 4...20mA -1...0...+1A, -5...0...+5A Accuracy Class : 0.5 4 Digit	40...300VAC/DC	1,180
<b>Non - Programmable DC Ammeter</b>					
Rish ADC	DD14	48 x 96 x 138 mm	Input : 0 - 20 & 4 - 20mA Display : 14 mm LED Display Accuracy Class : 0.1 4 1/2 Digit	110 / 230V AC	1,980
				24 / 110 V DC	2,590
Rish ADC	DD14	96 x 96 x 55 mm	Input : 0 - 20 & 4 - 20mA Display : 14 mm LED Display Accuracy Class : 0.1 4 1/2 Digit	110 / 230V AC	2,100
				24 / 110 V DC	2,680
Rish ADC	DD14	72 x 144 x 94 mm	Input : 0-10mA, 10-0-10mA, 20mA, 4-20mA Display : 26 mm LED Display Accuracy Class : 0.1 4 1/2 Digit	110 / 230V AC	3,950
				24 / 110 V DC	4,640
<b>Programmable DC Voltmeter</b>					
Rish Eine +	EI99	96 x 96 x 35 mm 48 x 96 x 138 mm	Input : -75...0...+75mV, -150...0...+150mV -5...0...+5V, -10...0...+10V, 0...500V, 0...1000V Accuracy Class : 0.5 4 Digit	40...300VAC/DC	1,180

## Digital Panel Meters

Model	KMAT	Size	Description	Auxiliary Supply	LP (INR)
<b>Non - Programmable DC Voltmeters</b>					
Rish VDC C	DD14	48 x 96 x 138 mm	Input : 0 - 60 / 75 / 150 & 200mV Display : 14 mm LED Display Accuracy Class : 0.2 4 1/2 Digit	110 / 230V AC	2,040
				24 / 110 V DC	2,660
Rish VDC F	DD14	48 x 96 x 138 mm	Input : 0 - 2 / 20 / 200 / 500 / 1000V Display : 14 mm LED Display Accuracy Class : 0.2 4 1/2 Digit	110 / 230V AC	2,130
				24 / 110 V DC	2,790
Rish VDC C	DD14	96 x 96 x 55 mm	Input : 0 - 60 / 75 / 150 & 200mV Display : 14 mm LED Display Accuracy Class : 0.2 4 1/2 Digit	110 / 230V AC	2,130
				24 / 110 V DC	2,760
Rish VDC F	DD14	96 x 96 x 55 mm	Input : 0 - 2 / 20 / 200 / 500 / 1000V Display : 14 mm LED Display Accuracy Class : 0.2 4 1/2 Digit	110 / 230V AC	2,130
				24 / 110 V DC	2,760
Rish VDC C	DD14	72 x 144 x 94 mm	Input : 0 - 60 / 75 / 150 & 200mV Display : 26 mm LED Display Accuracy Class : 0.1 4 1/2 Digit	110 / 230V AC	3,910
				24 / 110 V DC	4,590
Rish VDC F	DD14	72 x 144 x 94 mm	Input : 0 - 2 / 20 / 200 / 500 / 1000V Display : 26 mm LED Display Accuracy Class : 0.1 4 1/2 Digit	110 / 230V AC	3,910
				24 / 110 V DC	4,590
<b>Power DPM</b>					
Power DPM	PP44	96 x 96 x 80 mm	Input : 57.7 - 277V L-N, 100 - 480V L-L & 1 or 5A Display : 11 mm or 20 mm LED Display Single & 3Ph 3W/4W Network Accuracy Class : 1) KW / KVA - $\pm 0.5\%$ of range 2) KVA <sub>r</sub> - $\pm 1\%$ of range Power Range : Max 250MVA, accorging to CT/PT Ratio 4 Digit	110 / 230VAC	3,740
				12 - 48VDC 100 - 250 VAC/DC	4,500
Power DPM	PP44	72 x 144 x 78 mm	Input : 63.5 / 133 / 239.6 / 254V L-N 110 / 230 / 415 / 440V L-L & 5A Display : 26 mm LED Display Single & 3Ph 3W/4W Network Accuracy Class : 1) KW / KVA - $\pm 0.5\%$ of range 2) KVA <sub>r</sub> - $\pm 1\%$ of range Power Range : Max 250MVA, accorging to CT/PT Ratio 4 Digit	40...300VAC/DC	5,040
<b>Power Factor DPM</b>					
PF DPM	PF44	96 x 96 x 80 mm	Input : 57.7 - 277V L-N, 100 - 480V L-L & 1 or 5A Display : 11 mm or 20 mm LED Display Single & 3Ph 3W/4W Network Accuracy Class : $\pm 2^\circ$ 4 Digit	110 / 230VAC	3,910
				12 - 48VDC 100 - 250 VAC/DC	4,500
PF DPM	PF44	72 x 144 x 78 mm	Input : 63.5 / 133 / 239.6 / 254V L-N & 5A 110 / 230 / 415 / 440V L-L & 5A Display : 26 mm LED Display Single & 3Ph 3W/4W Network Accuracy Class : $\pm 2^\circ$ 4 Digit	40...300VAC/DC	5,180
<b>Frequency DPM</b>					
Rish DPM Hz	DH10	48 x 96 x 138 mm	Input : 50...500V Range: 10...500Hz Accuracy Class : $\pm 0.5\%$ 4 Digit	40...300V AC/DC 20...40V AC / 20...60V DC	1,290
Rish DPM Hz	DH10	96 x 96 x 138 mm	Input : 50...500V Range: 10...500Hz Accuracy Class : $\pm 0.5\%$ 4 Digit	40...300V AC/DC 20...40V AC / 20...60V DC	1,330
Rish DPM Hz	DH10	72 x 144 x 78 mm	Input : 50...500V Range: 10...500Hz Accuracy Class : $\pm 0.5\%$ 4 Digit	40...300V AC/DC 20...40V AC / 20...60V DC	3,360

## Multifunction Meters

KMAT	Model	Description	Auxiliary Supply	LP (INR)
<b>LED Meters</b>				
<b>Basic Range</b>				
VF10	Rish Optima VAF	Input : 100...500 V L-L, 1 / 5A 3 Line LED Display Single Ph & 3Ph 3W/4W Network Accuracy Class : 1	40 - 300V AC/DC or 20-40 V AC/20-60 V DC	1,710
DL10	Rish Delta VAF	Input : 100...500 V L-L, 1 / 5A 3 Line LED Display Single Ph & 3Ph 3W/4W Network Accuracy Class : 1	40 - 300V AC/DC	2,050
DL20	Rish Delta Power	Input : 100...500 V L-L, 1 / 5A 3 Line LED Display Single Ph & 3Ph 3W/4W Network Accuracy Class : 1	40 - 300V AC/DC or 12- 48 V DC	3,090
DL30	# Rish Delta Energy	Input : 100...500 V L-L, 1 / 5A 3 Line LED Display Single Ph & 3Ph 3W/4W Network Accuracy Class : 1		5,330
<b>AC Energy Meter</b>				
EM90	EM 3490	Input : 100 / 230 / 415 / 440 V L-L for 3Ph 3W/4W or 110 / 240 V L-N for Single Phase, 1A / 5A Counter type Energy Meter with Fixed CT Ratio Accuracy Class : 1	Self Powered AC	3,340
EM91	EM 3490SS	Input : 100 / 230 / 415 / 440 V L-L, 1 / 5A Energy Meter with LED Display Single Ph & 3Ph 3W/4W Network Accuracy Class : 1	110V/230V/380V AC or 12 - 48V DC / 100-250V AC/DC	4,030
EM92	EM 3490DS	Input : 100 / 230 / 415 V L-L, 1 / 5A Dual Source Energy Meter with LED Display Single Ph & 3Ph 3W/4W Network Accuracy Class : 1		5,060
<b>DC Energy Meter</b>				
EM 93	RISH EMDC -6001	Basic Model 6001 (without USB, RTC & In-built Memory for Data logging) Input Voltage : 10-60 / 61-200 / 201-1000V Accuracy Class : 1	60....300V AC/DC & 12 - 70 VDC	7,190
EM 93	RISH EMDC -6002	Higher Model 6002 (with USB + RTC + In-built Memory for Data logging) Input Voltage : 10-60 / 61-200 / 201-1000V Accuracy Class : 1		10,070
<b>Advanced Range</b>				
MA3A	Rish Master 3430	Input : On site Programmable (Voltage - 57.7 - 346 VL-N) ( 1/5A ) Single Phase Network Accuracy Class : 1	12 - 60V DC / 60-300V AC/DC	6,110
		Input : On site Programmable (Voltage - 100 - 600 V L-L) ( 1/5A ) 3Ph 3W/4W Network Accuracy Class : 1		6,470
MA4A	# Rish Master 3440	Input : On site Programmable (Voltage - 57.7 - 346 VL-N) ( 1/5A ) Single Phase Network Accuracy Class : 1		7,920
		Input : On site Programmable (Voltage - 100 - 600 V L-L) ( 1/5A ) 3Ph 3W/4W Network Accuracy Class : 1		8,620



## Multifunction Meters

KMAT	Model	Description	Auxiliary Supply	LP (INR)
<b>LCD Meters</b>				
WH00	# RISH EM 1320	Input : 110 / 230 / 415 V L-L, 1 / 5A Single Phase, 3Ph 3W/4W Network with LCD Display Accuracy Class : 1	60...300VAC/DC 20...40VAC / 20...60VDC	2,550
WH00	# Rish EM 1330	Input : 110 / 230 / 415 V L-L, 1 / 5A Single Phase, 3Ph 3W/4W Network with LCD Display Accuracy Class : 1		2,940
WH00	# Rish EM 1340	Input : 110 / 230 / 415 V L-L, 1 / 5A Single Phase, 3Ph 3W/4W Network with LCD Display Accuracy Class : 1		4,520
WH00	# RISH EM 2340DS	Input : 63.5 / 133 / 239.6 V L-N, 1 / 5A Dual Source Energy Meter with LCD Display Single Phase, 3Ph 3W/4W Network Accuracy Class : 1		3,450
MA4L	RISH LM 1350	Input : On site Programmable (Voltage - upto 600 V L-L) ( 1/5A ) Big LCD Display with RTC 3Ph 3W/4W Network Accuracy Class : 0.5S	100-550V AC/DC	7,500
MA4L	RISH LM 1360	Input : On site Programmable (Voltage - upto 600 V L-L) ( 1/5A ) Big LCD Display with RTC 3Ph 3W/4W Network Accuracy Class : 0.5S		8,500
<b>Touch Screen Innovation Meters</b>				
MA3I	RISH MASTER 3430 i	Input : On site Programmable (Voltage - 100 upto 600 V L-L) ( Current - 1/5A ) Single Phase Network Accuracy Class : 1	60- 300V AC/DC / 12-60 V DC	7,860
		Input : On site Programmable (Voltage - 100 upto 600 V L-L) ( Current - 1/5A ) 3Ph 3W/4W Network Accuracy Class : 1		8,390
MA4I	# RISH MASTER 3440 i	Input : On site Programmable (Voltage - 100 upto 600 V L-L) ( Current - 1/5A ) Single Phase Network Accuracy Class : 1		10,010
		Input : On site Programmable (Voltage - 100 upto 600 V L-L) ( Current - 1/5A ) 3Ph 3W/4W Network Accuracy Class : 1		10,540
<b>Power Quality Monitor</b>				
PA00	# RISH PQM	Input : On site Programmable (Voltage - 100 upto 500 V L-L) ( Current - 1/5A ) 3Ph 3W/4W Network Accuracy Class : 0.5s	60-300AC/DC	14,820
<b>Advanced Dual Source Energy Meter</b>				
WH10	RISH 3490DS i	Input : On site Programmable (Voltage - 100 upto 500 V L-L) ( Current - 1/5A ) 3Ph 3W/4W Network or 1 Phase Accuracy Class : 0.5s	60-300AC/DC	15,630
<b>Smart Demand Controller</b>				
DM82	RISH DMC i	Input : On site Programmable (Voltage - 100 upto 500 V L-L) ( Current - 1/5A ) 3Ph 3W/4W Network or 1 Phase Accuracy Class : 0.5s, with 4 Relay output	60-300AC/DC	23,970



## Multifunction Meters

KMAT	Model	Description	Auxiliary Supply	LP (INR)
<b>Power Quality Analyzer</b>				
PA10	RISH PQA	Input : On site Programmable (Voltage - 100 upto 500 V L-L) ( Current - 1/5A ) 3Ph 3W/4W Network Accuracy Class : 0.2s, with 8 GB memory card and USB	85-265AC/DC	86,280
Note: # - Marked Models are also available in ANSI enclosure, for any related queries contact HQ				
<b>Optional Accessories for Multi-function Meters*</b>				
1	Accuracy class 0.5	RM 3430, RM 3440, RM 3430i, RM 3440i , EM 3490, EM 3490SS, EM 3490DS		1,380
2	Accuracy class 0.2	RM 3430, RM 3440, RM 3430i, RM 3440i		2,290
3	Accuracy class 0.2S	RM 3440, RM 3440i, LM 1350/60		2,500
4	RS485 (Modbus )	EM 1330, 1340, EM 3490SS, EM 3490DS, EM 1320, EM 2340DS , Delta Energy, PQM, DMCi ,RM 3490DSi , LM 1350/60 ,RISH EMDC, RISH PQA		1,100
5	RS485 + 2 Pulse	RM 3430, RM 3440, RM 3430i, RM 3440i ,LM 1350/1360		1,100
6	RS485+1Pulse + 2 Analog	RM 3430, RM 3440, RM 3430i, RM 3440i		2,860
7	1 Relay o/p (Pulse /Limit)	EM 1330, EM 1340, EM 3490, EM 3490SS, EM 3490DS, EM1320, EM 2340DS, Delta Energy,Optima VAF, Delta Power		1,010
8	2 Pulse /Relay	EM 1330, EM 1340, EM 1320, EM 2340DS,PQM, RM 3490DSi, EMDC		1,380
9	Ethernet Inteface (MODBUS TCP/IP Protocol)	RM 3430, RM3430i, RM 3440, RM 3440i, PQM , LM 1350/60		3,530
10	Terminal Sealing	EM 3490, 3490SS		100
11	DIP Switch	Instead of Fixed CT Ratio for EM 3490		460
12	Thumb Wheel	Instead of Fixed CT Ratio for EM 3490		1,100
13	Converter 1	RS 485 to RS 232 Converter (Self Powered)		2,290
14	Converter 2	RS 485 to USB Converter (Self Powered)		5,500
15	4 Relay	EM DC		2,290
16	Data logging + Ethernet	LM 1350/1360		4,200
17	Datalogging + USB	LM 1350/1360		2,100
18	400Hz	RM 3440		530
19	IP 65 Kit	For 96x96 size models		130
All the above mentioned MFMs are with dimension 96 X 96mm				
Before selecting any single or multiple optional accessories / outputs, please refer to the respective datasheets to check feasibility				

## Electrical Transducer and Process Transducer

KMAT	Model	Description	Auxiliary Supply	LP (INR)
<b>Electrical Transducer</b>				
<b>Programmable Rish CON Series</b>				
CM41	Rish CON I	Type : Current (TRMS) Input : 1...5A Output : 0...20mA / 4...20mA OR 0...10V Accuracy Class : 0.2	60...300VAC/DC or 24...60VAC/DC	3,360
CM41	Rish CON V	Type : Voltage (TRMS) Input : 57...500V Output : 0...20mA / 4...20mA OR 0...10V Accuracy Class : 0.2		3,360
CF41	Rish CON Hz	Type : Frequency (TRMS) Input : 45...55 / 48...52 / 55...65 / 45...65 Hz (57...500V) Output : 0...20mA / 4...20mA OR 0...10V Accuracy Class : 0.2		3,740
CP41	Rish CON P	Type : Power / Power Factor (TRMS) Input : 57...500V, 1...5A Output : 0...20mA / 4...20mA OR 0...10V / -20mA...0...+20mA / -10V...0...+10V Accuracy Class : 0.2		7,340
PR43	Rish CON M	Type : Multi-transducer (TRMS) Input : 100 to 400V L-L, 1...5A Output : 0 / 2 / 4 Analog -20...0...20mA & 0 / 2 / 4 Relay (M-04, M-22, M-40) Communication Port : MODBUS RS 485 & USB Accuracy Class : 0.5	85...253 VAC / 90...320 VDC or 20...40 VAC / 20...60 VDC	12,820
<b>Programmable Rish Ducer MXX Series</b>				
PM11	Rish Ducer M20	Type : Multi-transducer Input : 100 to 693V L-L, 1 to 6A (Configurable) Output : 2 Analog Outputs 0...20mA OR 0...10V (Configurable) Communication Port : RS 232 Accuracy Class : 0.2 for Voltage & Current Class : 0.15 for Frequency Class : 0.25 for Power & Power Factor	24...60 or 85...230VAC/DC	14,140
	Rish Ducer M30	Type : Multi-transducer Input : 100 to 693V L-L, 1 to 6A (Configurable) Output : 3 Analog Outputs 0...20mA OR 0...10V (Configurable) Communication Port : RS232 Accuracy Class : 0.2 for Voltage & Current Class : 0.15 for Frequency Class : 0.25 for Power & Power Factor		17,730
	Rish Ducer M24	Type : Multi-transducer Input : 100 to 693V L-L, 1 to 6A (Configurable) Output : 2 Analog Outputs 0...20mA OR 0...10V (Configurable), 4 Digital Outputs Communication Port : RS 232 Accuracy Class : 0.2 for Voltage & Current Class : 0.15 for Frequency Class : 0.25 for Power & Power Factor		17,410
	Rish Ducer M42	Type : Multi-transducer Input : 100 to 693V L-L, 1 to 6A (Configurable) Output : 4 Analog Outputs 0...20mA OR 0...10V (Configurable), 2 Digital Outputs Communication Port : RS 232 Accuracy Class : 0.2 for Voltage & Current Class : 0.15 for Frequency Class : 0.25 for Power & Power Factor		19,000
	Rish Ducer M40	Type : Multi-transducer Input : 100 to 693V L-L, 1 to 6A (Configurable) Output : 4 Analog Outputs 0...20mA OR 0...10V (Configurable) Communication Port : RS 232 & MODBUS RS 485 Accuracy Class : 0.2 for Voltage & Current Class : 0.15 for Frequency Class : 0.25 for Power & Power Factor		21,280

## Electrical Transducer and Process Transducer

KMAT	Model	Description	Auxiliary Supply	LP (INR)
PM11	Rish Ducer M01	Type : Multi-transducer Input : 100 to 693V L-L, 1 to 6A (Configurable) Communication Port : RS 232 & MODBUS RS 485 Accuracy Class : 0.2 for Voltage & Current Class : 0.15 for Frequency Class : 0.25 for Power & Power Factor	24...60 or 85...230VAC/DC	15,200
	Rish Ducer M00	Type : Multi-transducer Input : 100 to 693V L-L, 1 to 6A (Configurable) Communication Port : RS 232 & LONBUS (LonWorks) Accuracy Class : 0.2 for Voltage & Current Class : 0.15 for Frequency Class : 0.25 for Power & Power Factor		18,960
<b>Non - Programmable Rish CON Series</b>				
CM22	Rish CON CA	Type : Current AVG (Single input Single output) Input : 0...1 / 0...5A Output : 0..10mA / 0...20mA / 2..10mA / 4...20mA / 0...5V / 0...10V Accuracy Class : 0.2	40...300VAC/DC or 24...60VAC/DC	2,350
CM21		Type : Current TRMS (Single input Single output) Input : 0...1 / 0...5A Output : 0..10mA / 0...20mA / 2..10mA / 4...20mA / 0...5V / 0...10V Accuracy Class : 0.2		3,140
CM22	Rish CON CV	Type : Voltage AVG (Single input Single output) Input : 0...63.5V to 0...500V Output : 0..10mA / 0...20mA / 2..10mA / 4...20mA / 0...5V / 0...10V Accuracy Class : 0.2		2,350
CM21		Type : Voltage TRMS (Single input Single output) Input : 0...63.5V to 0...500V Output : 0..10mA / 0...20mA / 2..10mA / 4...20mA / 0...5V / 0...10V Accuracy Class : 0.2		3,140
CM23	Rish CON CA	Type : Current - AVG (Single input Dual output) Input Range : 0...1 / 0...5A Output : 0..10mA / 0...20mA / 2..10mA / 4...20mA / 0...5V / 0...10V Accuracy Class : 0.2	60...300 VAC/DC or 20...40VAC / 20...60VDC	3,410
	Rish CON CV	Type : Voltage - AVG (Single input Dual output) Input Range : 0-63.5 / 0-100 / 0-110 / 0-150 / 0-220 / 0-230 / 0-240 / 0-250 / 0-300 / 0-330 / 0-415 / 0-450 / 0-500V AC Output : 0..10mA / 0...20mA / 2..10mA / 4...20mA / 0...5V / 0...10V Accuracy Class : 0.2		3,410
<b>Optional Accessories for Electrical Transducers</b>				
RS 485	Rish CON V, Rish CON I, Rish CON Hz, Rish CON P			1,010
Display Module	Rish CON V, Rish CON I, Rish CON Hz, Rish CON P			740
Dual Output	Rish CON V, Rish CON I, Rish CON Hz, Rish CON P			740
Input Frequency	400Hz for Rish CON P			420
Non Standard Input / Output	Rish CON CA / CV			920
PRKAB 601	Programming RS232 / USB & Configuration Adapter + Cable for Rish CON V, Rish CON I, Rish CON Hz, Rish CON P			1,930

# Electrical Transducer and Process Transducer

KMAT	Model	Description	Auxiliary Supply	LP (INR)
<b>CT with Inbuilt Transducer</b>				
CCT1	RISH CTDucer 70 x 30mm	Type : Current TRMS (Single input Single output) Input : 0 - 50A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%	24V DC ± 15%	3,290
		Type : Current AVG (Single input Single output) Input : 0 - 50A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		1,990
		Type : Current TRMS (Single input Single output) Input : 0 - 100A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		3,340
		Type : Current AVG (Single input Single output) Input : 0 - 100A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		2,040
		Type : Current TRMS (Single input Single output) Input : 0 - 150A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		3,390
		Type : Current AVG (Single input Single output) Input : 0 - 150A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		2,090
		Type : Current TRMS (Single input Single output) Input : 0 - 200A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		3,440
		Type : Current AVG (Single input Single output) Input : 0 - 200A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		2,140
		Type : Current TRMS (Single input Single output) Input : 0 - 250A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		3,490
		Type : Current AVG (Single input Single output) Input : 0 - 250A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		2,190
		Type : Current TRMS (Single input Single output) Input : 0 - 300A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		3,540
		Type : Current AVG (Single input Single output) Input : 0 - 300A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		2,240
		Type : Current TRMS (Single input Single output) Input : 0 - 150A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		3,470
		Type : Current AVG (Single input Single output) Input : 0 - 150A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		2,180
		Type : Current TRMS (Single input Single output) Input : 0 - 200A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		3,520
		Type : Current AVG (Single input Single output) Input : 0 - 200A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		2,230
Type : Current TRMS (Single input Single output) Input : 0 - 250A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%	3,570			

## Electrical Transducer and Process Transducer

KMAT	Model	Description	Auxiliary Supply	LP (INR)
CCT1	RISH CTDucer 90 x 40 mm	Type : Current AVG (Single input Single output) Input : 0 - 250A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%	24V DC ± 15%	2,280
		Type : Current TRMS (Single input Single output) Input : 0 - 300A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		3,620
		Type : Current AVG (Single input Single output) Input : 0 - 300A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		2,330
		Type : Current TRMS (Single input Single output) Input : 0 - 400A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		3,670
		Type : Current AVG (Single input Single output) Input : 0 - 400A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		2,380
		Type : Current TRMS (Single input Single output) Input : 0 - 500A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		3,720
		Type : Current AVG (Single input Single output) Input : 0 - 500A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		2,430
		Type : Current TRMS (Single input Single output) Input : 0 - 600A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		3,770
		Type : Current AVG (Single input Single output) Input : 0 - 600A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		2,480
		Type : Current TRMS (Single input Single output) Input : 0 - 750A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		3,850
		Type : Current AVG (Single input Single output) Input : 0 - 750A Output : 0...20mA / 4...20mA Accuracy Class : 0.5%		2,550
		<b>Optional Accessory</b>		
Accessory	Din Rail Mounting Kit			70
Note: For Non-Standard Ranges, please contact Head Office				

# Electrical Transducer and Process Transducer

KMAT	Model	Description	Auxiliary Supply	LP (INR)
<b>Process Transducer</b>				
PI02	Rish PI 102	Type :Programmable Dual output DC Isolator Input Range : 0...12 / 0...10 / 0...5 / 1...5 VDC 0...20 / 0...10 / 4...20 / 0...24 mA DC Output : 0..10mA / 0...20mA / 2..10mA / 4...20mA / 0...5 / 1...5 / 0...10 / 2...10V Accuracy Class : 0.2	60...300 VAC/DC or 20...40VAC / 20...60VDC	2,870
SI01	Rish CON SI-101	Type : Powerful DC Signal Isolator Input : DC Current : 0...20mA, 4...20mA,1...5mA, DC Voltage : 0...10V, 2...10V,1...5V Output : DC Current : 0...20mA, 4...20mA, DC Voltage : 0...10V, 2...10V Accuracy Class : 0.2	24...60V AC/DC or 60 ...300V AC/DC	1,910
SI02	Rish CON SI-102	Type : Powerful DC Signal Isolator Input : DC Current : 0...20mA, 4...20mA,1...5mA, DC Voltage : 0...10V, 2...10V,1...5V Output : DC Current : 0...20mA, 4...20mA, DC Voltage : 0...10V, 2...10V Accuracy Class : 0.2		2,880
TV08	TV808	Type : DC Isolator 1 Input-1 Output (S17 or E8 Housing) Input : 0.1mA...20mA & 4...20mA & 0.06V...40V Output : DC Current 0...20mA, 4...20mA, DC Voltage : 0...5V, 0...10V Accuracy Class : 0.2	24...60V AC/DC or 85 ...230V AC/DC	2,400
	TV808	Type : DC Isolator 1 Input-2 Output (S17 or E8 Housing) Input : 0.1mA...20mA & 4...20mA & 0.06V...40V Output : DC Current 0...20mA, 4...20mA, DC Voltage : 0...5V, 0...10V Accuracy Class : 0.2		3,360
	TV808	Type : DC Isolator 2 Input-2 Output (S17 Housing) Input : 0.1mA...20mA & 4...20mA & 0.06V...40V Output : DC Current 0...20mA, 4...20mA, DC Voltage : 0...5V, 0...10V Accuracy Class : 0.2		3,840
<b>Tap Position Transducer</b>				
CT25	Rish CON TPT	Type : Tap Position Input : 0-17kOhm, 0-18kOhm, 0-20kOhm, 0-25kOhm Output : DC Current : 0...20mA, 4...20mA, DC Voltage : 0...10V, 2...10V Accuracy Class : 0.2	24...60V AC/DC or 60 ...300V AC/DC	4,320
	Rish CON TPT	Type : Tap Position with display Input : 0-17kOhm, 0-18kOhm, 0-20kOhm, 0-25kOhm Output : DC Current : 0...20mA, 4...20mA, DC Voltage : 0...10V, 2...10V Accuracy Class : 0.2		5,170
	Rish CON TPT (96x96)	Type : Tap Position with display (96 X 96) Input : 0-17kOhm, 0-18kOhm, 0-20kOhm, 0-25kOhm Output : DC Current : 0...20mA, 4...20mA, DC Voltage : 0...10V, 2...10V Accuracy Class : 0.2		4,760
<b>Universal Transmitter</b>				
V604	Rish Ducer V604	Type : Programmable Transmitter Input : DC Voltage/Current,Resitance,Temp.etc. Output : DC Current : 0...20mA, 4...20mA, DC Voltage : 0...5V, 1...5V,.0...10V, 2...10V Accuracy Class : 0.2	24...60V AC/DC or 85 ...230V AC/DC	7,290
<b>Temperature Transmitter</b>				
PT02	PT 602	Type : 1 Channel Temprature transmitter Input : Temprature Output : DC Current : 0...20mA, 4...20mA, DC Voltage : 0...10V Accuracy Class : 0.5	24...60V AC/DC or 85 ...230V AC/DC	5,330
		Type : 2 Channel Temprature transmitter Input : Temprature Output : DC Current : 0...20mA, 4...20mA, DC Voltage : 0...10V Accuracy Class : 0.5		6,670
<b>Optional Accessories for Process Transducers</b>				
RS 485		Rish CON TPT 96 X 96		1,010
Non Standard Input / Output		Rish Ducer TV808 and Rish CON SI 101 / SI 102		740
PRKAB 600		Programming RS232 & Configuration Adapter + Cable for Rish Ducer V604		1,930
PRKAB 601		Programming RS232 & Configuration Adapter + Cable for Rish CON TPT		1,930

## Digital Programmable Relays

KMAT	Model	Description	Auxiliary Supply	LP (INR)
<b>Digital Monitoring Relay</b>				
TR10	Rish Relay - I	Prog. 1PH Current 1-5A 1CO+1CO	60-300V AC/DC OR 20-60V DC / 20-40V AC	2,860
	Rish Relay - I	Prog. 1PH Current 1-5A 2CO		2,860
	Rish Relay - I	Prog. 1PH Current 1-5A 1CO		2,860
	Rish Relay - I	Prog. 3PH Current 1-5A 1CO+1CO		2,910
	Rish Relay - I	Prog. 3PH Current 1-5A 2CO		2,910
	Rish Relay - I	Prog. 3PH Current 1-5A 1CO		2,910
	Rish Relay V/Hz	Prog. 1PH & 3PH V 100-600V L-L 1CO+1CO		2,610
	Rish Relay V/Hz	Prog. 1PH & 3PH V 100-600V L-L 2CO		2,610
	Rish Relay V/Hz	Prog. 1PH & 3PH V 100-600V L-L 1CO		2,610
	Rish Relay V	Prog. 1PH & 3PH VOLT 100-600V L-L 1CO+1CO		2,250
	Rish Relay V	Prog. 1PH & 3PH VOLT 100-600V L-L 2CO		2,200
	Rish Relay V	Prog. 1PH & 3PH VOLT 100-600V L-L 1CO		2,200
ELR1	Rish ELR (Din)	ELR SINGLE CBCT 1CO+1CO	60-300V AC/DC OR 20-60V DC / 20-40V AC	2,910
	Rish ELR (Din)	ELR SINGLE CBCT 2CO		2,840
	Rish ELR (Din)	ELR SINGLE CBCT 1CO		2,790
	Rish ELR+(Din)	ELR+ Dual CBCT 1CO+1CO		4,060
	Rish ELR VI(NE) (Din)	ELR VI(NE) CBCT+E to N V+I 1CO+1CO		4,620
	Rish ELR VI (Din)	ELR VI CBCT+V+I 1CO+1CO		4,270
	Rish ELR (96x96mm)	ELR SINGLE CBCT 1CO		2,790
	Rish ELR (96x96mm)	ELR SINGLE CBCT 1CO+1CO		2,880
	Rish ELR (96x96mm)	ELR SINGLE CBCT 2CO		2,840
	Rish ELR+ (96x96mm)	ELR+ DUAL CBCT 1CO+1CO		4,060
	Rish ELR VI (96x96mm)	ELR VI CBCT+V+I 1CO+1CO		4,270
	Rish ELR VI (NE) (96x96mm)	ELR VI(NE) CBCT+E to N V+I 1CO+1CO		4,620
CB01	Rish CBCT	TW-E CBCT 73/30 (50) 30mA-30A 600:1		870
CB02	Rish CBCT	TW-E CBCT 95/50 (40) 30mA-30A 600:1		1,260
CB03	Rish CBCT	TW-E CBCT 135/85 (30) 30mA-30A 600:1		1,410
CB04	Rish CBCT	TW-E CBCT 165/130 (30) 30mA-30A 600:1		1,620
CB05	Rish CBCT	TW-E CBCT 260/200 (20) 30mA-30A 600:1		2,250
<b>Optional Accessory</b>				
Accessory	Extra charges for PRKAB 600 programming cable			1,930



## PROTECTOR TRIP RELAYS

KMAT	Model	Description	Auxiliary Supply	LP (INR)
<b>AC Current Relay Input - 2 / 3 / 4 / 6 / 8 / 10A or 1A / 5A CT Operated</b>				
LA21	252 - PAU	Single Phase Under Current	AC : 120 / 230 / 240 / 400 / 415V	990
	252 - PAO	Single Phase Over Current		990
LA31	253 - PAD	Single Phase Combined Under/Over Current		1,950
	253 - PAV	Three Phase Under Current		2,360
	253 - PAP	Three Phase Over Current		2,360
<b>Optional Accessories</b>				
Extra charges for DC Aux : 12 / 24 / 48 / 110V				100
Extra charges for any non-standard settings other than Datasheet				100
<b>AC Voltage Relay With Adjustable Differential Input - 100 / 110 / 220 / 230 / 240 / 380 / 400 / 415 / 440V</b>				
LK21	252 - PVU	Single Phase Under Voltage	Self Powered	1,300
	252 - PVO	Single Phase Over Voltage		1,300
LK31	253 - PVB	Single Phase Combined Under/Over Voltage.		1,950
LK21	252 - PVV	3 Phase 4 Wire Under Voltage		1,300
	252 - PVP	3 Phase 4 Wire Over Voltage		1,300
LK31	253 - PVE	3 Phase 4 Wire Combined Under/Over Voltage		1,950
LK21	252 - PVK	3 Phase 3 Wire Under Voltage		1,300
	252 - PVA	3 Phase 3 Wire Over Voltage		1,300
LK31	253 - PVM	3 Phase 3 Wire Combined Under/Over Voltage		1,950
<b>Optional Accessories</b>				
Extra charges for Aux supply / Time Delay				100
<b>AC Voltage Relay With Adjustable Time Delay Input - 100 / 110 / 220 / 230 / 240 / 380 / 400 / 415 / 440V</b>				
LJ21	252 - PVZ	Single Phase Under Voltage	Self Powered	1,300
	252 - PVH	Single Phase Over Voltage		1,300
	252 - PVX	3 Phase 4 Wire Under Voltage		1,300
	252 - PVS	3 Phase 4 Wire Over Voltage		1,300
	252 - PVJ	3 Phase 3 Wire Under Voltage		1,300
	252 - PVC	3 Phase 3 Wire Over Voltage		1,300
<b>Optional Accessory</b>				
Extra charges for Aux supply				100
<b>Frequency Relay With Adjustable Time Delay Range - 40/60Hz, 50/70Hz, 360/440Hz, Input - 100 / 110 / 220 / 230 / 240 / 380 / 400 / 415 / 440V</b>				
LF21	252 - PHU	Under Frequency	Self Powered	1,140
	252 - PHO	Over Frequency		1,140
LF31	253 - PHD	Combined Under/Over Frequency		1,950
<b>Optional Accessory</b>				
Extra charges for Aux supply				100
<b>Combined Under / Over Voltage &amp; Frequency Range - 40/60Hz, 50/75Hz, 360/440Hz, Input - 120 / 240V</b>				
LC61	256 - PHV	Single Phase Combined Under/Over Voltage and Frequency.	Self Powered	3,940
<b>Phase Sequence &amp; Phase Failure Input - 100 / 110 / 220 / 230 / 240 / 380 / 400 / 415 / 440V</b>				
LP21	252 - PVR	3 Phase 3 Wire or 4 Wire	Self Powered	900
<b>Thermistor Trip Relay Range : Trip 2500-3500 Ohm, Reset :1500 -2300 Ohm.</b>				
LT21	252 - PMT	Automatic Reset	AC : 110 / 120 / 220 / 230 / 240V	1,090
	252 - PMM	Manual Reset		1,090
<b>Synchro Check Relay (Paralleling) Input - 100 / 110 / 220 / 230 / 240 / 380 / 400 / 415 / 440V</b>				
LS61	256 - PLL	1 Generator , 1 Bus or 2 Generator Systems.	Self Powered	2,110
	256 - PLD	1 Generator with 'DEAD BUS' facility		2,640



## PROTECTOR TRIP RELAYS

KMAT	Model	Description	Auxiliary Supply	LP (INR)
<b>Phase Balance Relay</b> Input - 100 / 110 / 220 / 230 / 240 / 380 / 400 / 415 / 440V				
LB21	252 - PSF	Phase loss and Unbalance	Self Powered	1,090
	252 - PSG	Phase loss , Unbalance and Under Voltage.		1,430
<b>Reverse Power (Current) Relay</b> Input - 100 / 110 / 220 / 230 / 240 / 380 / 400 / 415 / 440V, Input - 1,2,3,4,5,6,8,10A				
LR61	256 - PAS	Single Phase or 3 Phase ,4 Wire.	Self Powered	2,280
	256 - PAT	3 Phase , 3 Wire.		2,320
	256 - PAQ	Single Phase or 3 Phase ,4 Wire with test push button.		3,860
	256 - PAR	3 Phase , 3 Wire with test push button.		3,860
<b>DC Voltage Relay</b> DC Voltage -18 to 20 or 20 to 32Vdc				
LD21	252 - PDU	DC Under Voltage with external time delay	Self Powered	1,430
	252 - PDO	DC Over Voltage with external time delay		1,550
	253 - PDE	DC Under Voltage with external external differential		1,300
<b>DC Milivolt Relay</b> Input-50/60/75/100/150mV ( Span- 10mV Min)				
LM21	252 - PBS	DC Milivolt Low Trip	AC : 120 / 240V	1,790
	252 - PBT	DC Milivolt High Trip		1,790
	Extra charges for DC Aux : 12 / 24 / 48 / 110V			100
<b>Transducer Trip Relay</b> Input - DC current - 1 / 5 / 10 / 20 / 4 - 20mA & DC voltage - 1 to 50V				
LX21	252 - PBA	Low Trip	AC : 120 / 240V	1,590
	252 - PBB	High Trip		1,590
LX31	253 - PBV	Combined High/Low		3,170
Extra charges for DC Aux : 12 / 24 / 48 / 110V				100
<b>Motor Protection Relay</b> Input - 100 / 110 / 220 / 230 / 240 / 380 / 400 / 415 / 440V				
LL31	253 - MPR	Motor Protection Relay ( Phase Loss,Reversal,Unbalanced)	AC : 110 / 220 / 230 / 240 / 380 / 415V	1,710
<b>Earth Fault Relay</b> Input - 1A / 5A				
LE31	253 - EFR	Earth Fault Relay	AC : 230V	2,060

## Power Supply

RISH FLEX - E SERIES						
Order Code	Model No	Input Voltage	Output Voltage	Output Current	Power Range	LP (INR)
<b>Single Phase - Metal Housing</b>						
RF14-1B00000000000	Rish Flex - e 9024A	115 V AC/ 230V AC	24 V DC	5 A	95 to 120 W	2,320
RF14-1C00000000000	Rish Flex - e 17024A	115 V AC/ 230V AC	24 V DC	7.5 A	95 to 180 W	2,450
<b>Two Phase - Metal Housing</b>						
RF14-2I00000000000	Rish Flex - e 9024B	230V AC / 400V AC	24 V DC	5 A	120 to 180 W	3,660
RF14-2J00000000000	Rish Flex - e 17024B	230V AC / 400V AC	24 V DC	7.5 A	120 to 180 W	4,760
<b>Single Phase - Plastic Housing</b>						
RF14-1N00000000000	1P Flex - e 1515A	115 V AC/ 230V AC	15 V DC	1.0 A	15 W	1,630
RF14-1M00000000000	1P Flex - e 1512A	115 V AC/ 230V AC	12 V DC	1.25 A	15 W	1,520
RF14-1K00000000000	1P Flex - e 3024A	115 V AC/ 230V AC	24 V DC	1.5 A	30 W	1,730
RF14-1L00000000000	1P Flex - e 4524A	115 V AC/ 230V AC	24 V DC	1.75 A	45 W	1,830
RF14-1A00000000000	1P Flex - e 6024A	115 V AC/ 230V AC	24 V DC	2.5 A	60 W	1,940

RISH FLEX SERIES						
Order Code	Model No	Input Voltage	Output Voltage	Output Current	Power Range	LP (INR)
<b>Single Phase - Metal Housing</b>						
RF13-1T00000000000	Rish Flex 6005A	115 V AC/ 230V AC	5 V DC	5 A	35 W	2,520
RF13-1S00000000000	Rish Flex 6012A	115 V AC/ 230V AC	12 V DC	6 A	72 W	2,550
RF13-1A00000000000	Rish Flex 6024A	115 V AC/ 230V AC	24 V DC	3 A	72 W	2,480
RF13-1B00000000000	Rish Flex 9024A	115 V AC/ 230V AC	24 V DC	5 A	120 W	4,100
RF13-1R00000000000	Rish Flex 17012A	115 V AC/ 230V AC	12 V DC	14 A	180 W	4,900
RF13-1Q00000000000	Rish Flex 17015A	115 V AC/ 230V AC	15 V	11 A	120 to 180 W	5,280
RF13-1C00000000000	Rish Flex 17024A	115 V AC/ 230V AC	24 V DC	7.5 A	180 W	4,900
RF13-1F00000000000	Rish Flex 17048A	115 V AC/ 230V AC	48 V DC	3.75 A	180 W	4,900
RF13-1P00000000000	Rish Flex 28012A	115 V AC/ 230V AC	12 V DC	20 A	240 W	6,980
RF13-1D00000000000	Rish Flex 28024A	115 V AC/ 230V AC	24 V DC	14 A	336 W	6,910
RF13-1G00000000000	Rish Flex 28048A	115 V AC/ 230V AC	48 V DC	7 A	336 W	7,250
RF13-1E00000000000	Rish Flex 50024A	115 V AC/ 230V AC	24 V DC	25 A	600 W	11,080
RF13-1H00000000000	Rish Flex 50048A	115 V AC/ 230V AC	48 V DC	12 A	600 W	11,620
<b>Two Phase - Metal Housing</b>						
RF13-2I00000000000	Rish Flex 9024B	230V/ 400V/ 500 V AC	24 V DC	5 A	120 W	4,980
RF13-2J00000000000	Rish Flex 17024B	230V/ 400V/ 500 V AC	24 V DC	7.5 A	180 W	5,280
RF13-2K00000000000	Rish Flex 28024B	230V/ 400V/ 500 V AC	24 V DC	14 A	336 W	8,390
<b>Three Phase - Metal Housing</b>						
RF13-3L00000000000	Rish Flex 50024B	400 – 500 V AC	24 V DC	25 A	600 W	13,650
RF13-3M00000000000	Rish PST 2430B	400 – 480 V AC	24 V DC	30 A	720 W	19,040
RF13-3N00000000000	Rish PST 2440B	400 – 480 V AC	24 V DC	40 A	960 W	23,480
<b>Redundancy Module</b>						
RF13-00M00000000000	Rish MR220	10 – 60 V DC	10 – 60 V DC	0 – 25 A (max)	----	2,520

LUMEL

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## Digital Panel Meters

Group	Model	Size	Digit	Description	Auxiliary Supply	LP (INR)
N24 Series						
RN24	N24 S	96 x 48 x 64 mm	4 Digit	Standard Input Signals with IP65; Input: -10 ... 60 mV or $\pm 60$ mV or 0 ... 10 V or $\pm 10$ V or 0... 20 mA or 4 ... 20 mA; Display: Red LED with 20mm Digit Height; Accuracy Class as per Datasheet	230 V AC OR 110 V AC OR 24 V AC	3,280
RN24	N24 T	96 x 48 x 64 mm	4 Digit	Temperature Input with IP65; Input: PT100 or Thermocouple: J type or K type; Display Red LED with 20mm Digit Height; Accuracy Class as per Datasheet		3,420
RN24	N24 H	96 x 48 x 64 mm	4 Digit	DC Higher Voltage and Current Input with IP65; Input: 100 V or 250 V or $\pm 100$ V or $\pm 250$ V or $\pm 400$ V or $\pm 1$ A or $\pm 5$ A; Display: Red LED with 20mm Digit Height; Accuracy Class as per Datasheet		4,000
RN24	N24 Z	96 x 48 x 64 mm	4 Digit	AC Voltage, Current & Frequency Input with IP65; Input: 1 ... 100 V or 2.5 ... 250 V or 4 ... 400 V or 20 ... 500 Hz (24 ... 480V) or 1 or 5 A; Display Red LED with 20mm Digit Height; Accuracy Class as per Datasheet		4,000
N25 Series						
RN25	N25 S	96 x 48 x 64 mm	5 Digit	Standard Input Signals with IP65; Input: -10 ... 60 mV or $\pm 60$ mV or 0 ... 10 V or $\pm 10$ V or 0... 20 mA or 4 ... 20 mA; Display: Red LED with 14mm Digit Height; Accuracy Class as per Datasheet	230 V AC OR 110 V AC OR 24 V AC	3,460
RN25	N25 T	96 x 48 x 64 mm	5 Digit	Temperature Input with IP65; Input: PT100 or Thermocouple: J type or K type; Display Red LED with 14mm Digit Height; Accuracy Class as per Datasheet		3,540
RN25	N25 H	96 x 48 x 64 mm	5 Digit	DC Higher Voltage and Current Input with IP65; Input: 100 V or 250 V or $\pm 100$ V or $\pm 250$ V or $\pm 400$ V or $\pm 1$ A or $\pm 5$ A; Display: Red LED with 14mm Digit Height; Accuracy Class as per Datasheet		4,220
RN25	N25 Z	96 x 48 x 64 mm	5 Digit	AC Voltage, Current & Frequency Input with IP65; Input: 1 ... 100 V or 2.5 ... 250 V or 4 ... 400 V or 20 ... 500 Hz (24 ... 480V) or 1 A or 5 A; Display Red LED with 14mm Digit Height; Phase: 1 - Phase; Accuracy Class as per Datasheet		4,160
Options for N24 & N25				Auxiliary Supply : 80 ... 253 V or 20 ... 40V AC/ DC (with 24V DC Supplying Output only for N24/ N25 (S & T))	-	1,320
				Configuration of parameters acc. to customer's request	-	400
				Non-standard unit printed on the meter (minimal qty: 5 pcs.)	-	1,230
N20 Series with Tri-Colour Display						
RN20	N20	96 x 48 x 64 mm	5 Digit	Temperature & Standard Input Signals with IP65; Input: Lower Input DC Current, Voltage and Temperature; Display: 3 - Colour LED Display with 14mm Digit Height; Accuracy Class as per Datasheet; Output: 2 OC type;	85 ... 253 V AC/ DC OR 20 ... 40 V AC/ DC	5,190
RN20Z	N20Z	96 x 48 x 64 mm	5 Digit	AC Current, Voltage and Frequency with IP65; Input: AC current, Voltage and Frequency; Display: 3 - Colour LED Display with 14mm Digit Height; Accuracy Class as per Datasheet Output: 2 OC type;		5,270
Option for N20 Series				Configuration of parameters acc. to customer's request	-	400
RN21	N21	96 x 48 x 64 mm	OLED display/ Bargraph	Temperature & Standard Input Signals with IP65; Input: Lower Input DC Current, Voltage and Temperature; Display: OLED 128 x 32 pixels in amber colour; Accuracy Class as per Datasheet; Output: 1x Alarm O/P and Power Supply Output	22 ... 60 V AC/ DC (terminals 12-13) & 60 ... 253 V AC / 60 ... 300 V DC (terminals 13-14)	13,250

## Digital Panel Meters

Group	Model	Size	Digit	Description	Auxiliary Supply	LP (INR)
N30 Series - Programmable via Front Key with Tri-colour Display						
RN30U	N30U	96 x 48 x 93 mm	5 Digit	Temperature & Standard Input Signals with IP65; Input: Universal Input (RTD, Thermocouple, Resistance and Standard Signals); Display: 3 - Colour LED Display with 14mm Digit Height; Accuracy Class as per Datasheet; Output: 2 NO relays;	85 ... 253 V AC/ DC OR 20 ... 40 V AC/ DC	8,980
RN30H	N30H	96 x 48 x 93 mm	5 Digit	Higher DC Voltage & Current Signals with IP65; Input: Universal Input (Higher DC Voltage & Current); Display: 3 - Colour LED Display with 14mm Digit Height; Accuracy Class as per Datasheet; Output: 2 NO relays;		9,090
RN30O	N30O	96 x 48 x 93 mm	5 Digit	Pulses, Frequency, Rotational Speed, Period, Work time Counter with IP65; Input: Universal Input (Pulses, Hz, Rotational Speed, Period, Work Time Counter); Display: 3 - Colour LED Display with 14mm Digit Height; Accuracy Class as per Datasheet; Output: 2 NO relays;		8,380
RN30P	N30P	96 x 48 x 93 mm	5 Digit	1-phase AC Parameter with IP65; Universal Input: 1 - Phase AC Parameters; Display: 3 - Colour LED Display with 14mm Digit Height; Accuracy Class as per Datasheet; Output: 2 NO relays;		8,090
Options for N30 Series				RS485 Interface, Analog Output and Pulse Output	-	4,490
				RS485 Interface, Analog Output, Pulse Output and 2 Change-Over Relays (NC - C - NO)	-	4,960
Digital Bargraph Meters - Vertical Type (1 & 2 Channel)						
RNA5	NA5	48 x 144 x 100 mm	4 Digit 3 - Colour: 55 Segments & 7 - Colour: 29 Segments	1 - Channel Bargraph for Temperature, Standard Signals, Resistance, DC V & I with IP65; Input: Universal Input (RTD, TC, Resistance, DC V & I and Standard Signals); Display: LED Displays with 7mm Digit Height; Accuracy Class: As per datasheet;	95 ... 253 V AC/ DC OR 20 ... 40 V AC/ DC	21,580
RNA6	NA6	48 x 144 x 100 mm	2 x 4 Digit 3 - Colour: 55 Segments & 7 - Colour: 29 Segments	2 - Channel Bargraph for Temperature, Standard Signals, Resistance, DC V & I with IP65 & Math Functions; Input: Universal Input (RTD, TC, Resistance, DC V & I and Standard Signals); Display: 2 x LED Displays with 7mm Digit Height; Accuracy Class: As per datasheet;		95 ... 253 V AC/ DC OR 20 ... 40 V AC/ DC
Extra charges (for NA5, NA6):				7-colour bargraph / per channel		4,490
				RS485 interface		2,190
				Analog output		2,210
				Blue digital display / per channel		3,460
				4 relays		3,290
				8 OC outputs		3,250
RNA5P	NA5 PLUS	48 x 144 x 100 mm	-	1 - Channel Bargraph	-	Coming Soon
RNA6P	NA6 PLUS	48 x 144 x 100 mm	-	2 - Channel Bargraph	-	Coming Soon
Extra charges (for NA5 PLUS & NA6 PLUS):					-	Coming Soon
Accessories for Digital Meters						
RPD14	PD14			Programmer for digital meters N24, N25, N20 and N20Z (for USB)		3,240
RCZ	CZ/996-001			Frame to fit a 96 x 48mm panel meter into a hole for 96 x 96mm device		490
RATS	ATS 1...5			DIN rail mounting adaptor for panel meters: ATS1 - for 96 x 96 mm meters ATS2 - for 96 x 48 mm meters ATS3 - for 72 x 72 mm meters ATS4 - for 48 x 96 mm meters ATS5 - for 48 x 48 mm meters	-	1,240

## Power Network Meters

Group	Model	Size	Description	Auxiliary Supply	LP (INR)
Network Parameter Meters - Panel Mount					
RND10	ND10	96 x 96 x 77 mm	3 - Phase Power Network Meter with THD measurement; Display: LCD Display with Backlight; Input: Voltage (100V or 400V or 500V), Current (1A or 5A) - Ratio Programmable;	Self Powered from L3 - Based on Input selection	11,850
Extra Charges for ND10			RS485 Output	-	1,740
RND20L	ND20LITE	96 x 96 x 77 mm	1 or 3 - Phase Power Network Meter with THD measurement; Display: LCD Display with Backlight; Input: Voltage (100V or 400V), Current (1A or 5A) - Ratio Programmable; Accuracy Class as per Datasheet;	85 ... 253 V AC, 90 ... 300 V DC, OR 20 ... 40 V AC, 20 ... 60 V DC	12,390
RND20	ND20	96 x 96 x 77 mm	1 or 3 - Phase Power Network Meter; Harmonic up to 21st; Display: LCD Display with Backlight; Input: Voltage (100V or 400V or 500V), Current (1A or 5A) - Ratio Programmable; Output: 1 Analog, 1 Relays, 1 OC, RS485 Modbus; Accuracy Class as per Datasheet;	85 ... 253 V AC, 90 ... 300 V DC, OR 20 ... 40 V AC, 20 ... 60 V DC	15,470
RND20CT	ND20CT	96 x 96 x 77 mm	1 or 3 - Phase Power Network Meter; Display: LCD Display with Backlight; Input: Voltage (100V or 400V), Current (Through plug in type CT); Output: 1 Relays, 1 OC, RS485 Modbus; Accuracy Class: As per datasheet;	85 ... 253 V AC, 90 ... 300 V DC, OR 20 ... 40 V AC, 20 ... 60 V DC	11,600
Extra Charges for ND20CT			ND20CT-303 - Splitter is recommended when connecting LJ single- phase current transformers with ND20CT meter.	-	1,200
			Optional CT's as Required	-	-
RND30	ND30	96 x 96 x 77 mm	1 or 3 - Phase Power Network Meter; Harmonic up to 51st; Display: LCD colour Display with Backlight; Input: Voltage (3 x 57.7/ 100 V, 3x 230/ 400 V or 3 x 110/ 190 V, 3 x 400/ 690 V) Current (1A or 5A) - Onsite Programmable Output: 2x Relays, RS485 Accuracy Class as per Datasheet;	85 ... 253 V AC, 90 ... 300 V DC, OR 20 ... 40 V AC, 20 ... 60 V DC	27,100
Extra Charges for ND30			2 Relay, 1 Analog, 2 PT100 input	-	2,510
			RS485 & Ethernet with Internal 8GB Memory	-	4,500
RND30P	ND30PNET	96 x 96 x 77 mm	1 or 3 - Phase Power Network Meter; Harmonic up to 51st; Display: LCD colour Display with Backlight; Input: Voltage (3 x 57.7/ 100 V, 3x 230/ 400 V or 3 x 110/ 190 V, 3 x 400/ 690 V) Current (1A or 5A) - Onsite Programmable Output: 2x Relays, RS485, Profinet Accuracy Class as per Datasheet;	85 ... 253 V AC, 90 ... 300 V DC, OR 20 ... 40 V AC, 20 ... 60 V DC	29,520
Extra Charges for ND30PNET			2 Relay, 1 Analog, 2 PT100 input	-	2,510
RND30B	ND30BAC		1 or 3 - Phase Power Network Meter; Harmonic up to 51st; Display: LCD colour Display with Backlight; Input: Voltage (3 x 57.7/ 100 V, 3x 230/ 400 V or 3 x 110/ 190 V, 3 x 400/ 690 V) Current (1A or 5A) - Onsite Programmable Output: 2x Relays, RS485, BACNET Accuracy Class: As per datasheet	85 ... 253 V AC, 90 ... 300 V DC, OR 20 ... 40 V AC, 20 ... 60 V DC	On Request
RN100	N100	144 x 144 x 77 mm	3 - Phase Power Network Meter; Harmonic up to 51st; Display: 4 x 4(1/2) LED Digit with 14mm Digit Height (Red or Green Colour); Input: Voltage (100V or 400V or 690V); Current (1A or 5A) - Ratio Programmable; 1 Pulse Input; Output: 1 Analog, 3 Relays, 1 Pulse; Accuracy Class as per Datasheet;	85 ... 253 V AC/ 90 ... 300 V DC	33,000
Extra charges (for N100):			3 Analog Outputs + 1 Relay (instead of 3 relays, 1 analog output, pulse input & output)	-	5,880
			ETHERNET + internal memory 8 GB	-	4,930



## Power Network Meters

Group	Model	Size	Description	Auxiliary Supply	LP (INR)
Network Parameter Meter - DIN Rail Mount					
RN27D	N27D	110 x 53 x 60 mm	DIN Rail Mountable Power Network Meter Input: Input: AC current (up to 63A), AC Voltage, Power, Frequency; Display: Red LED with 8.5mm Digit Height; Accuracy Class as per Datasheet;	230V AC	7,300
RN27P	N27P	53 x 110 x 60 mm	DIN Rail Mountable 1 - Phase Power Network Meter; Input: AC Current (up to 63A) & Voltage; Display - Modern Graphical Display in OLED Technology; Accuracy Class as per Datasheet; Output: 1 or 2 Relay Output, RS485 Modbus Communication, USB Port;	85 ... 253 V AC & 90 ... 300 V DC	12,610
Option for N27P			Analog output instead of 1 relay	-	1,160
RN43	N43	105 x 110 x 60 mm	3- Phase Power Network Meter, Display: LCD 6 Field (2 - Line) 3-digit Display, Input: Current (1A or 5A or 63A) Voltage (100V or 400V or 500V); Output: 3 Relays, 1 Pulse Output, RS485 Modbus Communication, USB Port; Accuracy Class as per Datasheet;	85 ... 253 V AC, 90 ... 300 V DC, OR 20 ... 40 V AC, 20 ... 60 V DC	16,950
Synchronizing Units - Panel Mount					
RKS5	KS5	96 x 96 x 77 mm	3 - Phase Synchronizing Units with LCD Colour Display; Input: 50 ... 150 V OR 150 ... 400 V Output: 2 Relays; RS485 Accuracy Class as per Datasheet;	85 ... 253 V AC, 90 ... 300 V DC, OR 20 ... 40 V AC, 20 ... 60 V DC	26,480
Option for KS5			RS-485 and Ethernet		2,010
Accessories for Power Network Meter					
RATS	ATS Kit (1...5)		DIN rail mounting adaptor for panel meters: ATS1 - for 96 x 96 mm meters ATS2 - for 96 x 48 mm meters ATS3 - for 72 x 72 mm meters ATS4 - for 48 x 96 mm meters ATS5 - for 48 x 48 mm meters	-	1,240

## Power Quality Analyzers

Group	Model	Size	Description	Auxiliary Supply	LP (INR)
Panel Mount Power Quality Analyzer					
RND40	ND40	144 x 144 x 104 mm	3 - Phase Power Quality Analyzers with Touch Screen; Harmonic 51st Order, with Class S measurement and without any input & Output in Standard Version Input: Voltage (3x 230V / 400V ), Current: (1A or 5A) - Ratio / Onsite Programmable; 2x PT 100 Inputs	85 V ... 240 V AC (40 ... 400 Hz) & 90 V ... 320 V DC	1,01,080
RND40	ND40	144 x 144 x 104 mm	3 - Phase Power Quality Analyzers with Touch Screen; Harmonic 51st Order, with Class S/A measurement and without any input & Output in Standard Version Input: Voltage (3x 230V / 400V ), Current: (1A or 5A) - Ratio / Onsite Programmable; 2x PT 100 Inputs		1,20,150
Extra Charges for ND40			8 relay outputs	-	5,580
			6 logic inputs, 4 relay outputs	-	6,400
			6 logic inputs, 3 analog outputs	-	11,300
Power Quality Analyzers - Hand Held					
RNP40	NP40	262 x 173 x 66 mm	Power Quality Analyzers - NP40 Standard Set without Current Clamps	Battery Operated / Power Adapter Supplied	3,22,760
Accessory Current Clamps for NP40		Dia 143 mm	JK-5000A (1x Piece)	-	14,420
		Dia 162 mm	JK-3000A(1x Piece)		16,930
		Dia 8 mm	KLC8C-5A (5A) (1x Piece)		19,430
		Dia 8 mm	CTC0080 (50A) (1x Piece)		24,760
		Dia 13 mm	CTC0130 (100A) (1x Piece)		25,610
		Dia 52 mm	CTC1535 (1000A) (1x Piece)		30,090

## Transducers

Group	Model	Description	Auxiliary Supply	LP (INR)
P17 Series - Passive Transducer/ Separator with Slim Size - 6.2 mm (DIN Rail Mount)				
RP17	P17	Transducer for Temperature and DC Voltage; Loop Powered; Input: Voltage (60 mV or 10V) or Temperature (PT100 or T/C J or K or N or E type) or Resistance (150 Ω or 250 Ω); Output: 4 ... 20 mA; Accuracy Class as per Datasheet;	Loop Powered	3,670
RP17G	P17G	Passive separator for DC Current Signal; Loop Powered; Input: 0 ... 20mA or 4 ... 20mA; Output: 0 ... 20mA or 4 ... 20mA; Accuracy Class as per Datasheet;	Loop Powered	3,190
P20 Series - Programmable using PD14 Converter (DIN Rail Mount)				
RP20	P20	Transducer of Temperature & Standard Signals; Input: Standard Signals, Resistance, RTD Sensors & Thermocouples; Output: Single Output Linear (0/ 4 ... 20 mA or 0 ... 10 V DC); Accuracy Class as per Datasheet;	85 ... 253 V AC/ DC OR 20... 60 V AC/ DC	6,050
RP20G	P20G	Transducer of Standard signals; Input: Standard Signals (from -20 mA to 20 mA & from -10 V to 10 V); Output: from -20 mA to 20 mA & from -10 V to 10 V; Accuracy Class as per Datasheet;	85 ... 253 V AC/ DC OR 20 ... 85 V DC & 20 ... 65 V AC	7,460
RP20H	P20H	Transducer of Higher DC Current/ DC Voltage; Input: Voltage (Up to ± 600V DC), Current (Up to ± 6A DC); Output: Single Output Linear (0/ 4 ... 20 mA or 0 ... 10 V DC) or RS485 Modbus Communication; Accuracy Class as per Datasheet;	85 ... 253 V AC/ DC OR 20... 40 V AC/ DC	5,630
Option for P20 / P20G / P20H		Configuration of parameters acc. to customer's request	-	390
RP21Z	<b>New</b> P21Z	Transducer of AC Current/ DC Voltage; Input: Voltage (Up to 600V AC) or Current (1/ 5A AC) or Frequency (20 ... 500 Hz - in Voltage Range 24 ... 480 V AC); Output: Single Output Linear (0/ 4 ... 20 mA or 0 ... 10 V DC) or RS485 Modbus; Accuracy Class as per Datasheet;	85 ... 253 V AC & 90..300 V DC OR 20 ... 40 V AC & 20 ... 60 V DC	6,360
Option for P21Z		Configuration of parameters acc. to customer's request	-	390
P30 Series - Transducers with Recording Feature (DIN Rail Mount)				
RP300	P300	Transducer of Frequency, Impulses Period & Rotational Speed, Without Memory Card Slot & Ethernet 2x Universal Inputs: Pulses, Hz, Period, Time, Counter Input; Output: Analog (0/ 4 ... 20 mA), 1 or 2 Relay, Power Supply (24V DC/ 30mA) for Sensor, RS485 Modbus; Accuracy Class as per Datasheet;	85 ... 253 V AC/ DC OR 20... 40 V AC & 20 ... 60 V DC	12,960
RP30U	P30U	Transducer of Temperature, DC Current & Voltage, Without Memory Card Slot & Ethernet; Input: Universal (DC Voltage, Current, Resistance, RTD Sensor, T/C); Output: Analog (0/ 4 ... 20 mA), 1 or 2 Relay, Power Supply (24V DC/ 30mA) for Sensor, RS485 Modbus; Accuracy Class as per Datasheet;		13,860
RP30P	P30P	Transducer of 1-Phase AC parameters Without Memory Card Slot & Ethernet; Input: Universal (AC Voltage, Current - Measures all electrical parameters); Output: Analog (0/ 4 ... 20 mA), 2 Relay, RS485 Modbus; Accuracy Class as per Datasheet;		19,930
RP30H	P30H	Transducer of Higher DC Current & Voltage, Without Memory Card Slot & Ethernet; Input: Universal (DC Voltage, Current); Output: Analog (0/ 4 ... 20 mA), 2 Relay, RS485 Modbus; Accuracy Class as per Datasheet;		18,460
Option for P30 Series		Second Analog output (for P30P & P30H only)		-
		Slot for SD memory cards	-	750
		Ethernet with 2GB internal memory	-	4,960
		Industrial Grade 1GB SD card (Code: 20-199-00-00023)	-	5,410
		Industrial Grade 2GB SD card (Code: 20-199-00-00025)	-	6,410



## Transducers

Group	Model	Description	Auxiliary Supply	LP (INR)
<b>P4X Series - Network Parameters Transducer (DIN Rail Mount)</b>				
RP41	P41	Transducer of 1-Phase Power Network Parameters; Measurement; Input: Voltage (100V or 400 V AC); Current (1A or 5A AC); Output: 1- Analog Output & RS485 Modbus Output, USB Port; Accuracy Class as per Datasheet;	85 ... 253 V AC & 90 ... 300 V DC OR 20 ... 40 V AC & 20 ... 60 V DC	12,140
Option for P41		Configuration of parameters acc. to customer's request	-	390
RP43	P43	Transducer of 3-Phase Power Network Parameters; Input: Voltage (100V or 400 V AC); Current (1A or 5A AC); Output: 4 - Relay, Impulse, RS485 Modbus Output, USB Outputs; Accuracy Class as per Datasheet;	85 ... 253 V AC & 90 ... 300 V DC OR 20 ... 40 V AC & 20 ... 60 V DC	15,070
Option for P43		Transducer with 2 Analog Outputs (-20 ... 20 mA) & 2 Relay Output	-	4,460
		Transducer with 4 Analog Outputs (-20 ... 20 mA) & Without Relay Outputs	-	6,240
<b>Temperature and Humidity Transducers (Wall Mount)</b>				
RP18	P18	Temperature and Humidity Transducer with External Sensor; without Display Output; RS485 Modbus; Accuracy Class as per Datasheet;	9 ... 24 V AC/ DC	6,440
RP18D	P18D	Temperature and Humidity Transducer with External Sensor; With Display; Output: RS485 Modbus; Accuracy Class as per Datasheet;	9 ... 24 V AC/ DC	7,650
RP18L	P18L	Temperature or Humidity Transducer with External Sensor; Loop Powered; Output: RS485 Modbus; Accuracy Class as per Datasheet;	19 ... 30 V DC	5,700
RP18S	P18S	Temperature humidity sensor with RS 45 port	9 ... 28 V AC/DC	Coming Soon
Options for P18 & P18D only		2 - Analog Outputs (4 ... 20 mA or 0 ... 10 V)	-	630
		Configuration of parameters acc. to customer's request	-	600
		Sensor mounted on wire - (wire length ca. 500mm, diameter of sensor tube: 12mm, diameter of protection cover: 11.8mm, length of sensor: 85mm)	-	1,010
Filters for P18, P18D & P18L		Membrane filter	-	4,390
		Teflon filter	-	8,130
		Sintered bronze filter	-	4,850
RP19	P19	Temperature or Humidity Transducer with In-built Sensor; Output: RS485 Modbus; Accuracy Class as per Datasheet;	19 ... 30 V DC	5,570
<b>Level Transmitter</b>				
RULT20	ULT20	Level Transmitter	-	On Request
<b>Accessory for Special Products (DPM, Bargraph, Transducers, Temperature Controllers, I/O Modules, Converters)</b>				
RPD14	PD14	Programmer unit for Rishabh products - for USB;	Supply from USB Port	3,240

## Temperature Controllers

Group	Model	Size	Description	Auxiliary Supply	LP (INR)
Controllers with Constant - Value Control					
RRE01	RE01	76 x 34 x 80 mm	Input: PT100 or PT1000 or NTC or Binary Voltage; Output: Relay or binary 0/5 V for relay of SSR type; Accuracy Class as per Datasheet;	230 V AC	7,450
RRE22	RE22	48 x 48 x 93 mm	Input: Universal RTD & T/C or Standard Signals; Output: Relay or binary 0/5 V for relay of SSR type; Accuracy Class as per Datasheet;	230 V AC OR 110 V AC OR 24 V AC	5,420
RRL10	RL10	48 x 48 x 93 mm	Input: Universal RTD or T/C; Output: Relay; Accuracy Class as per Datasheet;	230 V AC	6,660
Controllers with Analog Settings					
RRE55	RE55	96 x 96 x 65 mm	Temperature Controller with Thumbwheel Operation; Input: RTD (PT100 Sensor) or T/C (J or K or S Type); Output: Control (Relay or Transistor) and Alarm (Relay Option); Accuracy Class as per Datasheet;	85 ... 253 V AC/ DC	10,310
Option for RE55			Configurable Version with Buttons and an Alarm Output	-	2,220
DIN Rail - Mounted Controller					
RRE60	RE60	45 x 100 x 120 mm	Input: RTD (PT100 Sensor) or T/C (J or K or S Type); Output: Relay or Binary 0/5 V for Relay of SSR Type; Accuracy Class as per Datasheet;	230V AC	7,080
Option for RE60		1 Alarm Relay		-	480
		2 Alarm Relays		-	980
		Optional Auxiliary Supply		110 V AC or 24 V AC or 18 ... 72 V DC	2,660
RRE62	RE62	53 x 110 x 60.5 mm	Input: RTD (PT100 Sensor) or T/C (J or K Type) or Standard Signal (Voltage: ±60mV or ±10V; Current: ±20 mA) - onsite programmable; Output: Relay; Accuracy Class as per Datasheet;	22 ... 60 V AC & 20 ... 60 V DC OR 60 ... 253 V AC. & 60 ... 300 V DC	9,840
Options for RE62		Additional Relay Output - 5A / 230VAC / Binary output		-	350
		Continuous Output - 0/4 ... 20 mA or 0 ... 10V or 0 ... 5 V			2,050
		Supplying Output 24VDC / 40mA			730
		RS485 Modbus Communication			1,340
PID Controllers					
TC40	RE57	48 x 48 x 87.35 mm	Input: RTD Sensors: PT100, PT1000 Thermocouple Sensors: J, T, K, S, R, B, N, E Standard Signals: 0/4 ... 20mA or 0 ... 5 / 10V; Output: 1x SSR driving Output; Accuracy Class as per Datasheet;	60 ... 280 V AC/DC OR 20 ... 60V DC, 20 V – 40V AC	2,620
TC40	RE96	96 x 96 x 72.15 mm			2,690
TC40	RE77	48 x 96 x 72.15 mm			2,750
Extra Charges for TC40		1x Relay Output		-	140
		1x Relay + 1x SSR Output			400
		2x SSR Outputs			170
		2x Relay Output			540
RE70	RE70	48 x 48 x 93 mm	Input: Universal RTD & T/C; Output: Relay; Accuracy Class as per Datasheet;	230V AC	2,970
RRE71	RE71	48 x 48 x 93 mm	Input: RTD (PT100 Sensor) or T/C (J or K or S Type); Output: Relay or Binary 0/6 V for Relay of SSR type; Accuracy Class as per Datasheet;	230V AC	5,530
RRE81	RE81	48 x 96 x 93 mm	Input: RTD (PT100 Sensor) or T/C (J or K or S Type); Output: Main Output - Relay & Second Output - Relay or Binary 0/6 V for Relay of SSR type; Accuracy Class as per Datasheet;	230V AC	6,820

# Temperature Controllers

Group	Model	Size	Description	Auxiliary Supply	LP (INR)
Special Purpose					
PID Controllers					
RRE72	RE72	48 x 48 x 93 mm	Temperature Controller Programmable through econ software; Input: Universally Programmable RTD, T/C and Standard Signals; Output: Relay or Binary 0/5V, RS485 Communication; Accuracy Class as per Datasheet;	85 ... 253 V AC/ DC	9,470
Options for RE72 Controller			Continuous Signal - Analog Output (0/4 ... 20 mA or 0 ... 5/10 V DC)	-	1,360
			Binary Logic Input		210
			Third Output (Relay)		250
			Power Supply Output (24V DC/ 30mA) for Sensor		560
			Additional Input - Analog Signal (0/4...20 mA) or CT Input		900
			Optional Auxiliary Supply		20 ... 40 V AC/ DC
RRE82	RE82	48 x 96 x 93 mm	Temperature Controller Programmable through econ software; Input: Universally Programmable RTD, T/C and Standard Signals; Binary Input Output: 2 Relay in Standard & Optional 2 Outputs: Relay, OC; Accuracy Class as per Datasheet;	85 ... 253 V AC/ DC	12,610
Options for RE82 Controller			Continuous Signal - Analog Output (0/4 ... 20 mA or 0 ... 5/10 V DC)	-	1,360
			Power Supply Output (24V DC/ 30mA) for Sensor	-	560
			Optional Auxiliary Supply	20 ... 40 V AC/ DC	900
			CT94 - 50A Current Transformer used with CT Input in RE72 or RE82	-	1,230
Dual - Loop Controllers					
RRE92	RE92	96 x 96 x 100 mm	Temperature Controller with Ethernet Facility; Input: Universally Programmable 2 - Independent Channels with RTD, T/C and Standard Signals; 3 Binary Input; Output: Relay, OC; Accuracy Class as per Datasheet;	85 ... 253 V AC/ DC	43,720
Options for RE92			Continuous Output Signal - Analog Output (0/4 ... 20 mA or 0 ... 5/10 V DC) - Total 8 Outputs	-	2,590
			Power Supply Output (24V DC/ 30mA) for Sensor	-	970
			Additional Measuring Input (3rd - Input) - Standard Signal (0/4 ... 20 mA or 0 ... 5/10 V DC or 0...100/ 1000 Ω)	-	1,030
			Ethernet	-	1,970
Injection Moulding Controllers					
RSR11	SR11 11	Varies on No. of Controllers selected	System with 1 controller	1 Zone System: 230 V AC & 2 ... 8 Zone System: 3 x 230/ 400 V AC	27,870
RSR11	SR11 32		System with 2 controllers		69,100
RSR11	SR11 33		System with 3 controllers		85,910
RSR11	SR11 64		System with 4 controllers		1,06,920
RSR11	SR11 65		System with 5 controllers		1,46,000
RSR11	SR11 66		System with 6 controllers		1,44,690
RSR11	SR11 87		System with 7 controllers		1,65,950
RSR11	SR11 88		System with 8 controllers		1,80,880
Extra charges (for SR11):			RS-485 interface for one controller		
Accessories for Injection Moulding Controller					
RBR11	BR11	-	Controller for SR11 systems	-	15,510
Extra charges:			RS-485 interface		1,440
RZP11	ZP11 1		Connecting set for SR11 1, 3m long (for thermocouples and heaters)		18,640
RZP11	ZP11 2		Connecting set for SR11 3, SR11 6, SR11 8, 3m long (for Thermocouples and heaters)-(SR11 65, SR11 66, SR11 8 require 2 sets)		39,930
RZP11	ZP11 3		Connecting set for SR11 6, 3m long (for thermocouples)		73,570
RZP11	ZP11 4		Connecting set for SR11 6, 3m long (for heaters)		43,150
RZP11	ZP11 5		Connecting set for SR11 8, 3m long (for thermocouples)		73,560
RZP11	ZP11 6		Connecting set for SR11 8, 3m long (for heaters)		40,210
Extra charges:			ZP11 6m long		8,560
RGP11	GP11		Connector for set ZP11		4,530

## Power Controller & SSR

Group	Model	Size	Description	Auxiliary Supply	LP (INR)
RRP1	RP1	135 x 201 x 199 mm;	1 – Phase Thyristorized (Resistive/ Inductive Load) Power Controller; Input: Potentiometric (0 to 10 kΩ), Impulse (0/4 ... 32 V), Standard Signals (0 ... 5/ 10V or 0/4 ... 20 mA); Output: Thyristor (25A, 40A, 70A, 20 ... 440 V, 50/60 Hz), Alarming Relay PK1 & PK2 (60 mA, 350 V, Ron= 35 Ω);	85 ... 135 V AC OR 195 ... 253 V AC	34,980
RRP1	RP1	135 x 231 x 199 mm	1 – Phase Thyristorized (Resistive/ Inductive Load) Power Controller; Input: Potentiometric (0 to 10 kΩ), Impulse (0/4 ... 32 V), Standard Signals (0 ... 5/ 10V or 0/4 ... 20 mA); Output: Thyristor (125A, 20 ... 440 V, 50/60 Hz), Alarming Relay PK1 & PK2 (60 mA, 350 V, Ron= 35 Ω);	85 ... 135 V AC OR 195 ... 253 V AC	39,050
RRPL1	RPL1	135 x 201 x 199 mm	1 – Phase Thyristorized (Resistive or Rectifier Circuit) Power Controller; Input: Synchronization Input, Control Voltage & Current Input, Pulse Input (0/4...32 V), STOP Signal Input; Output: Current (25A, 40A, 70A, 230V AC or 400 V AC or 500V AC), Voltage (Master/ Slave - 6 ... 12V), Relay;	195 ... 253 V AC	32,870
RRPL1	RPL1	135 x 231 x 199 mm	1 – Phase Thyristorized (Resistive or Rectifier Circuit) Power Controller; Input: Synchronization Input, Control Voltage & Current Input, Pulse Input (0/4...32 V), STOP Signal Input; Output: Current (125A, 230V AC or 400 V AC or 500V AC), Voltage (Master/ Slave - 6 ... 12V), Relay;	195 ... 253 V AC	38,090
RRP3	RP3	212 x 318 x 177 mm	3 – Phase Thyristorized (Resistive/ Inductive Load) Power Controller; Input: Potentiometric (0 to 10 kΩ), Impulse (0/4 ... 32 V), Standard Signals (0 ... 5/ 10V or 0/4 ... 20 mA); Output: Current (40A, 3 ~ 400 V, 50 Hz), Alarming Relay PK1 & PK2 (60 mA, 350 V, Ron= 35 Ω);	195 ... 253 V AC	81,710
RRP3	RP3	212 x 318 x 177 mm	3 – Phase Thyristorized (Resistive/ Inductive Load) Power Controller; Input: Potentiometric (0 to 10 kΩ), Impulse (0/4 ... 32 V), Standard Signals (0 ... 5/ 10V or 0/4 ... 20 mA); Output: Current (70A, 3 ~ 400 V, 50 Hz), Alarming Relay PK1 & PK2 (60 mA, 350 V, Ron= 35 Ω);	195 ... 253 V AC	82,980
RRP3	RP3	212 x 318 x 177 mm	3 – Phase Thyristorized (Resistive/ Inductive Load) Power Controller; Input: Potentiometric (0 to 10 kΩ), Impulse (0/4 ... 32 V), Standard Signals (0 ... 5/ 10V or 0/4 ... 20 mA); Output: Current (125A, 3 ~ 400 V, 50 Hz), Alarming Relay PK1 & PK2 (60 mA, 350 V, Ron= 35 Ω);	195 ... 253 V AC	87,450
RRP3	RP3	383 x 433 x 281 mm	3 – Phase Thyristorized (Resistive/ Inductive Load) Power Controller; Input: Potentiometric (0 to 10 kΩ), Impulse (0/4 ... 32 V), Standard Signals (0 ... 5/ 10V or 0/4 ... 20 mA); Output: Current (200A, 3 ~ 400 V, 50 Hz), Alarming Relay PK1 & PK2 (60 mA, 350 V, Ron= 35 Ω);	195 ... 253 V AC	2,21,230
RRP3	RP3	383 x 433 x 281 mm	3 – Phase Thyristorized (Resistive/ Inductive Load) Power Controller; Input: Potentiometric (0 to 10 kΩ), Impulse (0/4 ... 32 V), Standard Signals (0 ... 5/ 10V or 0/4 ... 20 mA); Output: Current (300A, 3 ~ 400 V, 50 Hz), Alarming Relay PK1 & PK2 (60 mA, 350 V, Ron= 35 Ω);	195 ... 253 V AC	2,15,930
RRP3	RP3	383 x 433 x 281 mm	3 – Phase Thyristorized (Resistive/ Inductive Load) Power Controller; Input: Potentiometric (0 to 10 kΩ), Impulse (0/4 ... 32 V), Standard Signals (0 ... 5/ 10V or 0/4 ... 20 mA); Output: Current (450A, 3 ~ 400 V, 50 Hz), Alarming Relay PK1 & PK2 (60 mA, 350 V, Ron= 35 Ω);	195 ... 253 V AC	2,30,880
RRP7	RP7	50 x 105 x 105 mm	1 – Phase Thyristorized (Resistive/ Inductive Load) Power Controller; Input: Potentiometric (0 to 10 kΩ), Standard Signals (0 ... 5/ 10V or 0/4 ... 20 mA); Output: Triac (5, 10, 15 A; 195 .. 230 .. 253 V AC);	195 ... 253 V AC	11,560

## Recorders

Group	Model	Size	Description	Auxiliary Supply	LP (INR)
Paperless Recorders					
RKD8	KD8	144 x 144 x 155 mm	Touch-screen with 4GB Memory card; Input: 3 Universal (Programmable) Measuring Inputs, Output: USB & RS485 Slave; Software: KD Connect software	90 ... 253 V AC	81,750
Options for KD8			3 Additional Universal (Programmable) Measuring Inputs (Total 6 Inputs)	-	3,690
			6 Relays + 4 Logic Inputs (For 3-Channel Recorder Only)	-	5,690
			12 Relays + 8 Logic Inputs (For 6-Channel Recorder Only)	-	11,070
			PC Software For KD8 (Setup + Archive)	-	3,660
RKD7	KD7	144 x 144 x 155 mm	Touch-screen with 4GB Memory card; Input: Without Measuring Inputs, Software: KD Connect software Output: USB ;	90 ... 253 V AC	82,260
Options for KD7			6 Standard Measuring Inputs (Fixed Range acc. to Ordering Code)	-	12,140
			6 Universal (Programmable) Measuring Inputs	-	17,950
			3 Universal (Programmable) Measuring Inputs	-	13,750
			8 Relays + 8 OptoMOS Outputs	-	8,600
			8 Logic Inputs + 4 Analog Outputs	-	18,160
			Ethernet + RS-485 (Slave)	-	3,720
			Ethernet + RS-232	-	3,720
			Mathematic Functions	-	3,420
			PC Software For KD7 (Setup + Archive)	-	3,660
R20	20-199-00-00021	Compact Flash Card	Memory Card 4GB (Spare Part) for KD7 & KD8	-	8,590
Data Acquisition Module with WWW & FTP Server					
RSM61	SM61	45 x 120 x 100 mm	Data Acquisition Module with WWW server; Input: RS485 Modbus; Output: RS485/ RS232 / Ethernet With in-built 1GB Flash Memory, Built-in FTP & Web Server;	85 ... 253 V AC/ DC OR 20 ... 50 V AC/ DC	17,950
Option for SM61			License for Alarm E-Mails	-	2,380
Temperature & Humidity Monitor cum Recorder					
RHT20	HT20	150 x 100 x 30	HT20 Temperature and humidity monitor cum recorder with Supply 6V	PoE or 6V	20,710
RHT20	HT20	150 x 100 x 30	HT20 Temperature and humidity monitor cum recorder with Supply 6 V DC , PoE IEEE 802.3af		22,970
Extra Charge for HT20			6V DC adapter	-	1,920
			PoE adapter	-	10,040
			Conductor for PoE adapter	-	510
RHT25	HT25	150 x 100 x 30	Temperature and humidity monitor cum recorder	-	Coming Soon

## Network Devices

Group	Model	Size	Description	Auxiliary Supply	LP (INR)
Converters					
RPD22	PD22	45 x 120 x 100 mm	Data Concentrator/ Data Logger	85 ... 253 V AC/ DC OR 20 ... 50 V AC/DC	11,510
RPD51	PD51A	22.5 x 120 x 100 mm	Repeater RS485 / RS232 - DIN Rail Mountable	7 ... 35 V DC OR 20 ... 40 V AC / DC OR 85 ... 253 V AC / DC	6,250
RPD8	PD8	45 x 120 x 100 mm	Converter of the RS485 / Ethernet	85 ... 253 V AC / DC OR 20 ... 50 V AC / DC	25,470
RPD10	PD10	52 x 44 x 24 mm	Converter RS485 / USB	5V taken from USB port	4,520
I/O Modules					
Input Modules					
RSM1	SM1	22.5 x 120 x 100 mm	2 - Channel Input Module of Analog Signals with RS485 Interface; Input: Temperature, Standard Signals (Current or Voltage), Resistances; Output: RS485 Modbus Communication;	85 ... 253 V AC/ DC OR 20 ... 50 V AC/DC	8,530
RSM2	SM2	45 x 120 x 100 mm	4 - Channel Input Module of Analog Signals with RS485 Interface; Input: Temperature, Standard Signals (Current or Voltage), Resistances; Output: RS485 Modbus Communication;		16,730
RSM3	SM3	22.5 x 120 x 100 mm	2 - Channel Input Module of Digital Signals with RS485 Interface; Input: Logic/ Binary Input or Counter Input; Output: RS485 Modbus Communication;		7,450
RSM5	SM5	45 x 120 x 100 mm	8 - Channel Input Module of Digital Signals with RS485 Interface; Input: Logic/ Binary Input; Output: RS485 Modbus Communication;		7,600
RS4AI	S4AI	53 x 110 x 60.5 mm	4 - Channel Analog input with RS485 Modbus Interfaces; Input: 4 Programmable Analog Inputs: $\pm 10$ V / $\pm 20$ mA OR 4x Programmable Analog Inputs: Pt100, Pt500, Pt1000, J, K, S, $\pm 150$ mV Output: RS485 Modbus Communication;	85 ... 253 V AC, 90 ... 300 V DC OR 20 ... 40 V AC, 20 ... 60 V DC	17,190
Output Modules					
RSM4	SM4	45 x 120 x 100 mm	4 - Channel Relay output or 8 - Channel OC type Output with RS485 Interfaces; Input: RS485 Modbus Communication; Output: 4 Relay outputs of 8 OC Outputs;	85 ... 253 V AC/ DC OR 20 ... 50 V AC/ DC	8,150
RS4AO	S4AO	53 x 110 x 60.5 mm	4 - Channel Analog output with RS485 Modbus Interfaces; Input: RS485 Modbus Communication; Output: 4 Analog outputs;	85 ... 253 V AC, 90 ... 300 V DC OR 20 ... 40 V AC, 20 ... 60 V DC	16,280

## Lab Equipments

Group	Model	Size	Description	Auxiliary Supply	LP (INR)
RHA-P	HA-PSA3515	254 x 103 x 374	Programmable DC power supply_HA-PSA3515	100 ... 240V AC	On Request
RHA-G	HA-GFA005	425 x 150 x 465	Synthesized signal generator_HA-GFA005	115 - 230V AC	
RHA-D	HA-DMA512	260 x 106 x 375	Digital multimeters - HA-DMA512	115 /230V AC	
RHA-D	HA-DMA612	260 x 106 x 375	Digital multimeters - HA-DMA612	115 /230V AC	