



100 Series



Part
Series H100-702
LISTED 544A PUL. COUPL. EG
UL CE
UL LISTED 544A PUL. COUPL. EG
Model: H100-702
Part No: H100-702
Date: 10/15/10
Rev: 1.0
UE
1875 Drexel Ave. Waukegan, IL 60087
www.ueonline.com



APPROVALS

UE declarations and third-party issued Agency certifications are available for download at www.ueonline.com/prod_approval.



N. AMERICA, USA & CANADA (UL/CUL)

ENCLOSURE: TYPE 4X

CANADIAN REGISTRATION NUMBER (CRN) FOR CANADIAN PROVINCES
CAN BE FOUND AT WWW.UEONLINE.COM



EUROPE (ATEX) (OPTIONAL - CODE M405)

II 1 G EX IA IIC T6

$-50^{\circ}\text{C} \leq \text{TAMB} \leq +60^{\circ}\text{C}$



PRESSURE EQUIPMENT DIRECTIVE (PED) COMPLIANT

PRODUCTS RATED LOWER THAN 7.5 PSI ARE OUTSIDE SCOPE OF PED

LOW VOLTAGE DIRECTIVE (LVD)

UEC COMPLIANT

PRODUCTS RATED LOWER THAN 50 VAC AND 75 VDC ARE OUTSIDE SCOPE OF LVD

LVD DOES NOT APPLY FOR USE IN HAZARDOUS LOCATIONS



RUSSIA (OPTIONAL - CODE M406)

NANIO CCVE CERTIFIED

0EX IA IIC T6 GA X

$-50^{\circ}\text{C} \leq \text{TAMB} \leq +60^{\circ}\text{C}$



International (IECEx) (Optional - Code M405)

Ex ia IIC T6 Ga

$-50^{\circ}\text{C} \leq \text{Tamb} \leq +60^{\circ}\text{C}$



INMETRO - Brazil (Optional - code M391)



CCC - China (standard on all models)



PESO - India (Optional - code M405)

II 1 G Ex ia IIC T6 Ga

$-50^{\circ}\text{C} \leq \text{Tamb} \leq +60^{\circ}\text{C}$



United Arab Emirates - UAE

Ex ia IIC T6 Ga

$-50^{\circ}\text{C} \leq \text{Tamb} \leq +60^{\circ}\text{C}$



Safety Integrity Level (SIL2/SIL3) (Optional - code M400)

SIL 2 @ HFT=0, SIL 3 @ HFT=1; Route 2H

See page 11 for Certification Options

Check out our
product selector!





SPECIFICATIONS

STORAGE TEMPERATURE	-65 to 160°F
AMBIENT TEMPERATURE *	-40 to 160°F; models 520-525, 540-548, 700-706, 15731-15736: 0 to
LIMITS	160°F; Set point typically shifts less than 1% of range for a 50°F ambient temperature change

SET POINT REPEATABILITY

Temperature	All Models	±1%
Pressure & Diff. Pressure	Models: 15623, 15731-15737, 171-174, 218, 270-376, 520-535, 540-543, 700-706	±1%
	Models: 190-194, 183-189, 483-494, 544-548, 565-567, 610-680, 15884	±1.5%

SHOCK	Set point repeats after 15 G, 10 millisecond duration
VIBRATION	Set point repeats after 2.5 G, 5-500 Hz
ENCLOSURE	Die cast aluminum, epoxy powder coated, gasketed, captive cover screws
ENCLOSURE CLASSIFICATION	Enclosure type 4X
SWITCH OUTPUT	One SPDT snap action switch; switch may be wired “normally open” or “normally closed”

Electric ratings without optional switches

Models	Pressure and Temp.	Specials (pressure)	Specials (Temp.)
	All standard catalog models	15623, 15731 - 15737, 15884	B100-13546 & E100-13545
Electrical rating	15A @ 125/250/480 VAC Resistive; 2A Res. & 1A Inductive @ 24-30 VDC; 0.5A Res. & 0.03A Inductive @ 125 VDC	20A @ 125/250/480 VAC	22A @ 125/250/480 VAC

Product approximate weights

Pressure Models	190-194, 490-494, 188-189, 488-489, 218-230, 270-274, 358-376, 700-706, 680, 5731-15736	2 lbs
	171-174, 471-474, 565-567, 610-616, 15884, 15623	2.5 lbs
	183-186, 483-486	3.5 lbs
	520-525, 530-535, 15737	6 lbs
Diff. Press. Models	540-548	6 lbs
Local Temperature	B100 & C100	2.5 lbs
Remote Temperature	F100 & E100	3 lbs

ELECTRICAL CONNECTION 1/2" NPT (female); Two 7/8" diameter knockouts

TEMPERATURE DEADBAND Type F typically 1% and type B, C, and E typically 2% of range under laboratory conditions (70°F ambient circulating bath at rate of 1/2°F per minute change)

All temperature sensors use non-toxic oil fill.

*option may affect ratings, see option

H100
Vacuum and Ultra low pressure models (Adjustable Range Vacuum to 10 psi)

Model	Adjustable Set Point Range (i)	Wetted Material	Pressure Connection		Deadband	Over Range Pressure (ii)	Proof Pressure (iii)
	"wc		Thread	Orifice	"wc	psi	psi
520	300 Vac to 0	Buna-N; Aluminum	1/2" NPT (F)	0.62"	0.2 to 8	100	100
530	300 Vac to 0	316L st/st	1/2" NPT (F)	0.72"	0.2 to 15	50	100
521	10 Vac to 10	Buna-N; Aluminum	1/2" NPT (F)	0.62"	0.1 to 0.6	100	100
531	10 Vac to 10	316L st/st	1/2" NPT (F)	0.72"	0.1 to 0.6	50	100
522	50 Vac to 50	Buna-N; Aluminum	1/2" NPT (F)	0.62"	0.1 to 3	100	100
532	50 Vac to 50	316L st/st	1/2" NPT (F)	0.72"	0.1 to 3	50	100
15737*	50 Vac to 50	Buna-N; Aluminum	1/2" NPT (F)	0.62"	0.5 to 7	100	100
523	0.5 to 5	Buna-N; Aluminum	1/2" NPT (F)	0.62"	0.1 to 0.3	100	100
533	0.5 to 5	316L st/st	1/2" NPT (F)	0.72"	0.1 to 0.3	50	100
524	2.5 to 50	Buna-N; Aluminum	1/2" NPT (F)	0.62"	0.1 to 0.8	100	100
534	2.5 to 50	316L st/st	1/2" NPT (F)	0.72"	0.1 to 0.8	50	100
525	10 to 250	Buna-N; Aluminum	1/2" NPT (F)	0.62"	0.1 to 6	100	100
535	10 to 250	316L st/st	1/2" NPT (F)	0.72"	0.1 to 10	50	100
218	30" Hg Vac to 0	Ph. Bronze; Ni pl. Brass	1/4" NPT (F)	0.06"	1 to 2" Hg	3	30

* Models that include adjustable deadband switch

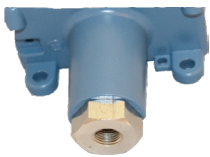
[i] - Low end of range on fall; high end of range on rise

[ii] - over range pressure is the maximum pressure that may be applied continuously without causing damage and maintaining set point repeatability

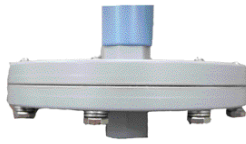
[iii] - Proof pressure is the maximum pressure to which a pressure sensor may be occasionally subjected which causes no permanent damage.

The unit may require re-calibration (i.e., start-up, testing)

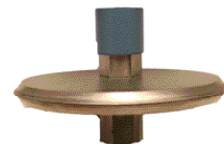
Green color indicates product is typically in stock at UE distributors.



Models 218



Models 520-525, 15737



Models 530-535

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 product selector!



H100 Pressure models (up to 100 psi)

Model	Adjustable Set Point Range (i)	Wetted Material	Pressure Connection		Deadband	Over Range Pressure (ii)	Proof Pressure (iii)
	psi		Thread	Orifice	psi	psi	psi
183	1 to 20	316 st/st; Viton	1/2" NPT (F)	0.72"	0.3 to 2.5	500	1000
483	1 to 20	316 st/st; Viton	1/2" NPT (F)	0.06"	0.3 to 2.5	500	1000
171	1 to 20	316L st/st	1/2" NPT (F)	0.72"	0.1 to 1	500	1000
701	1.5 to 30	Buna-N; Ni pl. Brass	1/4" NPT (F)	0.06"	1 to 2	500	600
15731*	3 to 30	Buna-N; Ni pl. Brass	1/4" NPT (F)	0.06"	1.5 to 5	500	600
190	5 to 30	316 st/st	1/2" NPT (F)	0.70"	1 to 3	1500	2500
490	5 to 30	316 st/st	1/2" NPT (F)	0.06"	1 to 3	1500	2500
565	5 to 30	316L st/st	1.5" sanitary connection		1 to 5	1000	1500
184	2 to 50	316 st/st; Viton	1/2" NPT (F)	0.72"	0.3 to 3	500	1000
484	2 to 50	316 st/st; Viton	1/2" NPT (F)	0.06"	0.3 to 3	500	1000
172	2 to 50	316L st/st	1/2" NPT (F)	0.72"	0.1 to 1.5	500	1000
702	3 to 100	Buna-N; Ni pl. Brass	1/4" NPT (F)	0.06"	1 to 4	500	600
15732*	5 to 100	Buna-N; Ni pl. Brass	1/4" NPT (F)	0.06"	3 to 9	500	600
185	4 to 100	316 st/st; Viton	1/2" NPT (F)	0.72"	0.3 to 2.5	500	1000
485	4 to 100	316 st/st; Viton	1/2" NPT (F)	0.06"	0.3 to 2.5	500	1000
191	10 to 100	316 st/st	1/2" NPT (F)	0.70"	1 to 8	1500	2500
491	10 to 100	316 st/st	1/2" NPT (F)	0.06"	1 to 8	1500	2500
173	4 to 100	316L st/st	1/2" NPT (F)	0.72"	0.1 to 2.5	500	1000
566	10 to 100	316L st/st	1.5" sanitary connection		1 to 12	1000	1500

* Models that include adjustable deadband switch

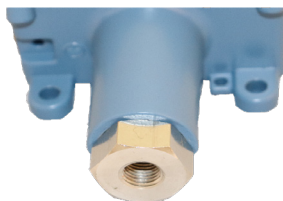
[i] - Low end of range on fall; high end of range on rise

[ii] - over range pressure is the maximum pressure that may be applied continuously without causing damage and maintaining set point repeatability

[iii] - Proof pressure is the maximum pressure to which a pressure sensor may be occasionally subjected which causes no permanent damage.

The unit may require re-calibration (i.e., start-up, testing)

Green color indicates product is typically in stock at UE distributors.



Models 701-702,
15731-15732



Models 171-173



Models 183-185, 483-485



Models 565-566



Models 190-191, 490-491

H100

Pressure Models (up to 500 psi)

Model	Adjustable Set Point Range (i)	Wetted Material	Pressure Connection		Deadband	Over Range Pressure (ii)	Proof Pressure (iii)
	psi		Thread	Orifice	psi	psi	psi
186	8 to 200	316 st/st; Viton	1/2" NPT (F)	0.72"	0.3 to 3	500	1000
486	8 to 200	316 st/st; Viton	1/2" NPT (F)	0.06"	0.3 to 3	500	1000
174	8 to 200	316L st/st	1/2" NPT (F)	0.72"	0.1 to 3.5	500	1000
270	4 to 200	Ph. Bronze; Ni pl. Brass	1/4" NPT (F)	0.06"	1 to 8	200	250
358	15 to 200	316L st/st	1/4" NPT (F)	0.09"	1 to 6	200	800
15623*	20 to 200	316 st/st; Viton	1/4" NPT (F)	0.06"	12 to 26	500	1000
703	9 to 300	Buna-N; Ni pl. Brass	1/4" NPT (F)	0.06"	1 to 5	500	600
15733*	9 to 300	Buna-N; Ni pl. Brass	1/4" NPT (F)	0.06"	4 to 16	500	600
192	15 to 300	316 st/st	1/2" NPT (F)	0.70"	3 to 18	1500	2500
492	15 to 300	316 st/st	1/2" NPT (F)	0.06"	3 to 18	1500	2500
361	20 to 300	316L st/st	1/4" NPT (F)	0.09"	1 to 7	200	800
567	15 to 300	316L st/st	1.5" sanitary connection		3 to 22	1000	1500
704	15 to 500	Buna-N; Ni pl. Brass	1/4" NPT (F)	0.06"	2 to 8	1500	2500
15734*	15 to 500	Buna-N; Ni pl. Brass	1/4" NPT (F)	0.06"	8 to 31	1500	2500
193	20 to 500	316 st/st	1/2" NPT (F)	0.70"	4 to 30	1500	2500
493	20 to 500	316 st/st	1/2" NPT (F)	0.06"	4 to 30	1500	2500
274	6 to 300	Ph. Bronze; Ni pl. Brass	1/4" NPT (F)	0.06"	1 to 10	300	350
376	25 to 500	316L st/st	1/4" NPT (F)	0.09"	1.5 to 8	200	800

* Models that include adjustable deadband switch

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The unit may require re-calibration (i.e., start-up, testing)

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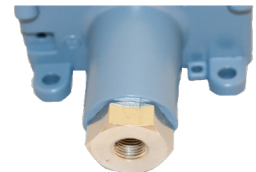
Model 174



Model 186, 486



Models 270-274, 358-376



Model 15623, 703-704,
15733-15734

Check out our
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Model 567



Models 192-193, 492-493

H100 Pressure models (up to 5000 psi)

Model	Adjustable Set Point Range (i)	Wetted Material	Pressure Connection		Deadband	Over Range Pressure (ii)	Proof Pressure (iii)
	psi		Thread	Orifice	psi	psi	psi
705	30 to 1000	Buna-N; Ni pl. Brass	1/4" NPT (F)	0.06"	3 to 20	1500	2500
15735*	30 to 1000	Buna-N; Ni pl. Brass	1/4" NPT (F)	0.06"	9 to 90	1500	2500
188	50 to 1000	316 st/st; Viton	1/2" NPT (F)	0.50"	25 to 125	2000	7000
488	50 to 1000	316 st/st; Viton	1/4" NPT (F)	0.06"	25 to 125	2000	7000
610	75 to 1000	303 st/st, Buna-N	1/4" NPT (F)	0.06"	30 to 150	6000	10000
706	100 to 1700	Buna-N; Ni pl. Brass	1/4" NPT (F)	0.06"	10 to 30	2000	2500
15736*	100 to 1700	Buna-N; Ni pl. Brass	1/4" NPT (F)	0.06"	25 to 100	2000	2500
194	80 to 1700	316 st/st	1/2" NPT (F)	0.70"	5 to 120	2000	2500
494	80 to 1700	316 st/st	1/2" NPT (F)	0.06"	5 to 120	2000	2500
680	100 to 1700	316 st/st	1/4" NPT (F)	0.06"	9 to 40	1700	2500
612	125 to 3000	303 st/st, Buna-N	1/4" NPT (F)	0.06"	40 to 250	6000	10000
189	250 to 3500	316 st/st; Viton	1/2" NPT (F)	0.50"	50 to 300	4000	7000
489	250 to 3500	316 st/st; Viton	1/2" NPT (F)	0.06"	50 to 300	4000	7000
616	700 to 5000	303 st/st, Buna-N	1/4" NPT (F)	0.06"	40 to 375	6000	10000
15884*	700 to 5000	303 st/st, Buna-N	1/4" NPT (F)	0.06"	80 to 500	6000	10000

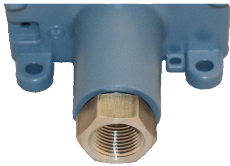
* Models that include adjustable deadband switch

[i] - Low end of range on fall; high end of range on rise

[ii] - over range pressure is the maximum pressure that may be applied continuously without causing damage and maintaining set point repeatability

[iii] - Proof pressure is the maximum pressure to which a pressure sensor may be occasionally subjected which causes no permanent damage. The unit may require re-calibration (i.e., start-up, testing)

Green color indicates product is typically in stock at UE distributors.



Models 188-189,
488-489, 194, 494



Models 610-616, 705-706,
15735, 15736, 15884



Model 680

H100K

Low Differential Pressure Models (up to 200" wcd)

Model	Adjustable Set Point Range (i)	Wetted Material	Pressure Connection		Deadband	Over Range Pressure (ii)	Proof Pressure (iii)
	"wcd		Thread	Orifice	"wc	psi	psi
540	0.2 to 7	Buna-N; Aluminum	1/8" NPT (F)	0.12"	0.05 to 0.6	200	400
541	1 to 20	Buna-N; Aluminum	1/8" NPT (F)	0.12"	0.1 to 1	200	400
542	5 to 50	Buna-N; Aluminum	1/8" NPT (F)	0.12"	0.2 to 2.5	200	400
543	10 to 200	Buna-N; Aluminum	1/8" NPT (F)	0.12"	0.5 to 8	200	400

Medium Differential Pressure Models (up to 500 psid)

Model	Adjustable Set Point Range (i)	Wetted Material	Pressure Connection		Deadband	Over Range Pressure (ii)	Proof Pressure (iii)
	psid		Thread	Orifice	psid	psi	psi
544	2 to 20	Buna-N; Aluminum	1/8" NPT (F)	0.12"	0.1 to 1.3	1200	2500
545	5 to 50	Buna-N; Aluminum	1/8" NPT (F)	0.12"	0.2 to 2.2	1200	2500
546	10 to 125	Buna-N; Aluminum	1/8" NPT (F)	0.12"	0.4 to 5	1200	2500
547	50 to 250	Buna-N; Aluminum	1/8" NPT (F)	0.06"	0.8 to 10	1200	2500
548	100 to 500	Buna-N; Aluminum	1/8" NPT (F)	0.06"	2 to 15	1200	2500

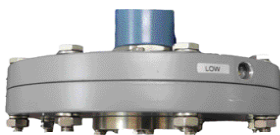
[i] - Low end of range on fall; high end of range on rise

[ii] - Working pressure range is the pressure range within which two opposing sensors can be safely operated and still maintain set point repeatability

[iii] - Proof pressure is the maximum pressure to which a pressure sensor may be occasionally subjected which causes no permanent damage.

The unit may require re-calibration (i.e., start-up, testing)

Green color indicates product is typically in stock at UE distributors.



Models 540-543



Models 544-548

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Type B100 Internal reference dial - Local immersion stem

Type	Ni plated brass stem	stainless steel stem	Adjustable Set Point Range (°F)	Max. Temp. (°F)	Scale Division (°F)	Stem size
B100	120	Use option M504	0 to 225	275	10	9/16" x 1-7/8" below 1/2" NPT
B100	121	Use option M504	200 to 425	475	10	9/16" x 1-7/8" below 1/2" NPT
B100	N/A	13546	15 to 140	160	5	9/16" x 2-11/16" long

Green color indicates product is typically in stock at UE distributors.

Type C100 No reference dial - Local immersion stem

Type	Ni plated brass stem	stainless steel stem	Adjustable Set Point Range (°F)	Max. Temp. (°F)	Scale Division (°F)	Stem size
C100	120	Use option M504	0 to 225	275	N/A	9/16" x 1-7/8" below 1/2" NPT
C100	121	Use option M504	200 to 425	475	N/A	9/16" x 1-7/8" below 1/2" NPT

Type E100 Internal reference dial - Bulb and capillary

Type	Copper sensor	Stainless steel sensor	Adjustable Set Point Range (°F)	Max. Temp. (°F)	Scale Division (°F)	Bulb size
E100	2BCA	2BSA	-120 to 100	150	10	3/8 x 2-5/8"
E100	2BCB	2BSB	30 to 250	300	10	3/8 x 2-5/8"
E100	3BC	3BS	100 to 400	450	10	3/8 x 2-1/8"
E100	4BC	4BS	25 to 100	150	2	3/8 x 6-3/4"
E100	5BC	5BS	-20 to 80	130	5	3/8 x 5"
E100	8BC	8BS	350 to 640	690	10	3/8 x 3-1/4"
E100	N/A	13545	25 to 325	360	10	1/8 x 11-5/8"

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Type F100 No reference dial - Bulb and capillary

Type	Copper sensor	Stainless steel sensor	Adjustable Set Point Range (°F)	Max. Temp. (°F)	Scale Division (°F)	Bulb size
F100	2BC	2BS	-125 to 350	400	N/A	3/8 x 2-5/8"
F100	3BC	3BS	-125 to 500	550	N/A	3/8 x 2-5/8"
F100	4BC	4BS	-40 to 120	170	N/A	3/8 x 2-1/8"
F100	5BC	5BS	-40 to 180	230	N/A	3/8 x 6-3/4"
F100	6BC	6BS	0 to 250	300	N/A	3/8 x 5"
F100	7BC	7BS	0 to 400	450	N/A	3/8 x 3"
F100	8BC	8BS	50 to 650	700	N/A	3/8 x 3-1/4"

Common Options

Option #	Description	Models														Temperature Models	
		171-174 471-474 190-194 490-494	183- 189 483- 489	218- 230	270- 274	358- 376	520- 525	530- 535	565- 567	610- 616	680	700 -706	540- 548	15623, 15731- 15737	15884	All Temp. Models	13545 & 13546
Switch Options																	
0140	Gold Contact, 1A 125 VAC resistive	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	
0500	Close deadband, 5A 125/250 VAC resistive	✓	✓	✓	✓	✓			✓	✓	✓	✓					
1010³	DPDT switch, 10A 250 VAC resistive			✓	✓	✓				✓		✓					
1070³	High DC, 10A 125 VDC resistive			✓	✓	✓				✓	✓	✓	✓			✓	
1519	Adjustable deadband, 15A 120/250/480 VAC resistive			✓	✓	✓	✓	✓	✓		✓	✓	✓			✓ ¹	
1530	External manual reset, latches on rise only, 15A 120/250/480 VAC resistive	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓			✓	
1535	High Ambient (up to 250°F), 15A 120/250/480 VAC resistive	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓			✓	
2000³	20A 120/250/480 VAC resistive	✓	✓	✓	✓	✓			✓	✓	✓	✓				✓	
3000³	30A 120/250/277 VAC resistive			✓	✓	✓				✓		✓				✓	

Misc. Options

M020	External red pilot light	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	
M201	Factory setting	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
M444	Paper ID tag	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
M446	St/St tag	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

¹Not available on types B100 and E100

²Not available on models 523 and 533

³Deadbands will increase with these switch options

Accessories

6361-704	Mounting bracket kit	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
SD6285-51	1/2" NPT (F) conduit kit	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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*- Consult factory for available options

H100 and H100K

Pressure Product Options

Option #	Description	Models													
Other Options		171-174 471-474 190-194 490-494	183- 189 483- 489	218- 230	270- 274	358- 376	520- 525	530- 535	565- 567	610- 616	680	700 -706	540- 548	15623, 15731- 15737	15884
M277	Range in KPa/MPa	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
M278	Range in Kg/cm ²	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
M401	NACE MR0175 Compliance	✓ ²	✓												
M449	Mounting bracket						✓	✓		✓			✓		
M540	Viton elastomer									✓		✓ ¹	✓		
M550	O ² service cleaning	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
M914	1/2" NPT (F) connection					✓				✓					
M921	Brass connection									✓					
XC001	Viton Elastomer						✓								
XC002	Kapton Diaphragm						✓								
XC003	Kapton Diaph. / Viton seal						✓								
XC004	316 st/st Diaph. /Viton seal						✓								
XC005	316L st/st / Viton diaph.						✓								
XC007	316L st/st / Teflon & Viton						✓								
XD002	Hastelloy C276 Diaph.		✓												
XD003	Monel 400 Diaph.		✓												
XP112	Hastelloy C276 P/C		✓												
XP113	Monel 400 P/C		✓												
XR211	Kalrez seal		✓												
XR213	EPR seal		✓												
XR214	Aflas seal		✓												

¹- Not available on model 706
²- Not available on models 194 & 494

100 Series Certification Options		
Option #	Description	Models
M391	InMetro Certification for Brazil	All
M400	SIL2 Certification	All*
M405	Intrinsically Safe Compliance(see page 2 for details)	All
M406	Intrinsically Safe Compliance For Russia (EAC Standards)	All

*-Consult factory for available options

Temperature Model Options

Option #	Material-Description		Local Stem Models			Bulb and Capillary Models							
			120	121	13546	2BS, 2BC, 2BSA, 2BCA, 2BSB, 2BCB	3BS, 3BC	4BS, 4BC	5BS, 5BC	6BS, 6BC	7BS, 7BC	8BS, 8BC	13545
M504	316L st/st	Immersion Stem	✓	✓									
M550		Oxygen service cleaning	✓	✓		✓	✓	✓	✓	✓	✓	✓	

Union Connectors for bulb & capillary models

Option #	Replacement Part #													
W027	SD6213-27	Brass	1/2" NPT W/3/4" bushing				✓	✓	✓	✓	✓	✓	✓	
W028	SD6213-28	304 st/st	1/2" NPT W/3/4" bushing				✓	✓	✓	✓	✓	✓	✓	
W045	SD6213-45	Brass	3/4" NPT				✓	✓	✓	✓	✓	✓	✓	
W046	SD6213-46	304 st/st	3/4" NPT				✓	✓	✓	✓	✓	✓	✓	
W051	SD6213-51	Brass	1/2" NPT				✓	✓	✓	✓	✓	✓	✓	
W050	SD6213-50	304 st/st	1/2" NPT				✓	✓	✓	✓	✓	✓	✓	

Thermowells for bulb & capillary models

W075	SD6225-75	Brass	4" BT, 1/2" NPT with 3/4" NPT adapter bushing				✓	✓				✓	✓	
W076	SD6225-76	316 st/st	4.5" BT, 3/4" NPT				✓	✓				✓	✓	
W191	SD6225-191	Brass	4" BT, 1/2" NPT				✓	✓				✓	✓	
W193	SD6225-193	316 st/st	4.5" BT, 1/2" NPT				✓	✓				✓	✓	
W118	SD6225-118	Brass	7" BT, 1/2" NPT with 3/4" NPT adapter bushing				✓	✓	✓	✓	✓	✓	✓	
W119	SD6225-119	316 st/st	7.5" BT, 3/4" NPT				✓	✓	✓	✓	✓	✓	✓	
W192	SD6225-192	Brass	7" BT, 1/2" NPT				✓	✓	✓	✓	✓	✓	✓	
W177	SD6225-177	316 st/st	7.5" BT, 1/2" NPT				✓	✓	✓	✓	✓	✓	✓	

Thermowells for all immersion stem models

W139	SD6225-139	Brass	3/4" NPT x 1-23/32" BT	✓	✓									
W140	SD6225-140	316 st/st	3/4" NPT x 1-23/32" BT	✓	✓									
W000		Brass	No thread	✓	✓									
W097		Brass	1/2" NPT x 1-23/32" BT	✓	✓									
W099		316 st/st	1/2" NPT x 1-23/32" BT	✓	✓									

BT-Below Thread

Check out our
product selector!



HOW TO ORDER

BUILDING A PART NUMBER

Select a **Type**

Refer to the "Type" section below.

Select a **Model**

Refer to "Model Charts" on pages 4-9.

Select an **Option**

Refer to the "Options" pages 10-12

Example:

Type: H100

Model: 186

Option: 0140

Type

Description

Pressure

Type H100 - One SPDT output; epoxy coated enclosure; internal adjustment with "High-Low" reference scale

Differential Pressure

Type H100K - One SPDT output; epoxy coated enclosure; internal adjustment with "High-Low" reference scale

Temperature

Type B100 - Immersion stem; one SPDT output; internal adjustment with reference dial

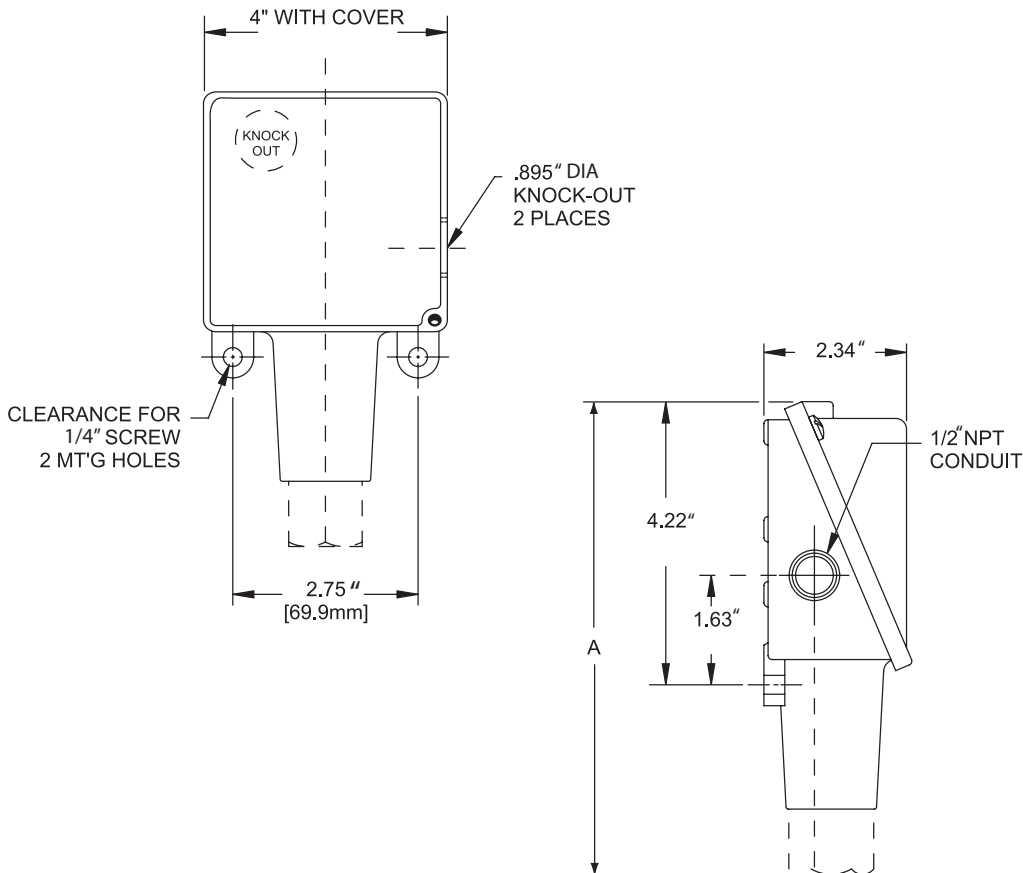
Type C100 - Immersion stem; one SPDT output; internal adjustment with no reference

Type E100 - Bulb and capillary; one SPDT output; internal adjustment with reference dial

Type F100 - Bulb and capillary; one SPDT output; internal adjustment with no reference

Dimensional drawings

Dimensional drawings for all models may be found [online](#).



Dimension A	
Models	Inches
Pressure	
171-174	7.63
183-186, 484-486	7.56
188-189, 488-489	6.63
190-194, 490-494	6.63
218	6.56
270-274	7.00
358-376	7.00
520-525, 15737	8.44
530-535	8.00
565-567	6.63
610-616, 680, 15884	7.00
701-706, 15623, 15731-15736	6.63
Differential Pressure	
540-543	8.47
544-548	8.53
Temperature	
120, 121, 13546	9.38
2BC-8BC, 2BS-8BS, 13545	8.69

ADDITIONAL PRODUCTS FROM UE

One Series Safety Transmitter for Division 1 (Zone 1)

- Improve Uptime with safety diagnostics
- Meet regulatory requirements with SIL2 IEC 61508 certification
- High-capacity solid-state safety relay for direct control



Vanguard Gas Detector – Toxic and Combustible Gas Detector

- WirelessHART Communication
- 5+ year battery life
- Heavy duty design with Class 1, Div 1 & 2 hazardous location approvals



24 Series

- Compact, lightweight corrosion-resistant polyester enclosure
- Designed to meet enclosure type 4 requirements



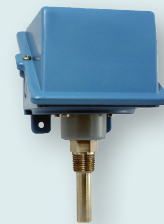
One Series for Division 1 & 2 (Zone 0, 1, 2)

- HART® 7 communications
- Drop-in replacement for mechanical switches using the existing 2-wires.



400 Series

- One, two or three switch outputs may be separated up to 100% of range
- Epoxy-coated enclosure, designed to meet enclosure type 4X requirements
- Choice of reference dial or multi-turn hex screw for set point adjustment



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