



D: 4 DIN Rail



C: 32x74mm

## XR100/500 SERIES: CONTROLLERS FOR NT, MT AND LT – RS485 OUTPUT

- Digital controllers suitable for both heating and cooling applications
- Built in RS485 for connection to Dixell's monitoring system
- Temperature control can be performed on probe 1, probe 2 or by the difference between probe 1 and 2
- Complete compressor and defrost management
- Recording of minimum and maximum temperatures
- Standard communication protocol ModBUS-RTU
- Hot Key or Prog tool kit connector for a quick and easy programming
- 3VA max power absorption
- Display with red LED (13,2 mm high)

### HOW TO ORDER

XR100/500  X  R     -  A  B  C  D  E

 For blue display please contact Dixell

XR40SL  X  R  4  0  S  L -  A  0  0  0  0

A	B	C	D	E		
Power supply	Input	Compressor	Measurement unit	Built-in RS485	4÷20mA	X-REP
<b>0</b> = 12Vac/dc <b>1</b> = 24Vac/dc <b>2</b> = 24Vac <b>4</b> = 110Vac <b>5</b> = 230Vac <b>6</b> = 110/230Vac	<b>P</b> = PTC <b>N</b> = NTC	<b>0</b> = 8A <b>1</b> = 20A for XR110C and XR120C	<b>C</b> = °C <b>F</b> = °F <b>H</b> = °C heating for XR110C <b>L</b> = °F heating for XR110C <b>K</b> = °C no evaporator probe for XR140C <b>Y</b> = °F no evaporator probe for XR140C	<b>1</b> Yes <b>2</b> Yes <b>3</b> No <b>4</b> No	No No Yes Yes	No Yes No Yes

# XR100

## THERMOSTAT and "OFF CYCLE" DEFROST MULTIFUNCTION CONTROLLERS with RS485 OUTPUT



C: 32x74mm



D: 4 DIN Rail

XR110C

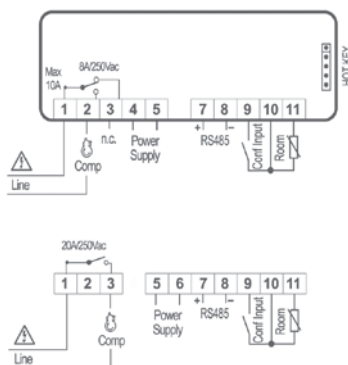
Digital thermostat for heating or cooling action with built in RS485

XR120C  
XR120D

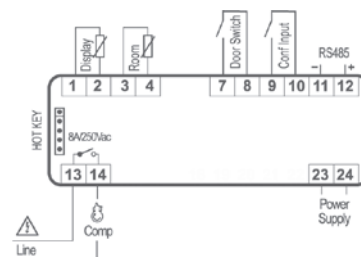
Digital controllers, with built in RS485, for N.T. with "off cycle" defrost

FEATURES	XR110C	XR120C	XR120D
<b>Display: n° digits</b>	± 3 d.p.	± 3 d.p.	± 3 d.p.
<b>Power supply</b>	12Vac/dc, 24Vac/dc opt 110, 230Vac	12Vac/dc, 24Vac/dc opt 110, 230Vac	110, 230Vac
<b>Probe inputs</b>			
Thermostat	NTC/PTC	NTC/PTC	NTC/PTC
Defrost			
Display			NTC/PTC
<b>Digital inputs</b>			
Start defrost, pressure switch, energy saving, AUX, generic alarm, serious alarm mode	config	config	config
Door switch			pres
<b>Relay outputs</b>			
Compressor	8A, 20A opt	8A, 20A opt	8A
Defrost			
Fans			
Alarm			
<b>Other</b>			
Hot Key/Prog Tool Kit output	pres	pres	pres
Remote display output			
Serial output	RS485	RS485	RS485
Analog output			
Buzzer	pres	pres	pres
Real time clock			

XR110C  
XR120C



XR120D



# XR100

## MULTIFUNCTION CONTROLLERS with RS485 OUTPUT for NORMAL, MEDIUM and LOW TEMPERATURE



C: 32x74mm



D: 4 DIN Rail

XR130C  
XR130D

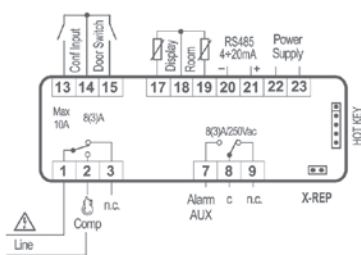
Digital controllers for N.T. with "off cycle" defrost, additional configurable relay and built in RS485

XR140C  
XR140D

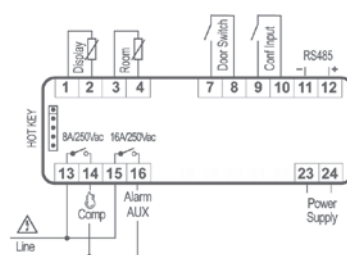
Digital controllers for M.T. and L.T. refrigerated applications with electrical or hot gas defrost function and built in RS485

FEATURES	XR130C	XR130D	XR140C	XR140D
<b>Display: n° digits</b>	± 3 d.p.	± 3 d.p.	± 3 d.p.	± 3 d.p.
<b>Power supply</b>	12Vac/dc 24 Vac/dc opt	110, 230Vac	12Vac/dc 24Vac/dc opt	110, 230Vac
<b>Probe inputs</b>				
Thermostat	NTC/PTC	NTC/PTC	NTC/PTC	NTC/PTC
Defrost			NTC/PTC	NTC/PTC
Display	NTC/PTC	NTC/PTC	NTC/PTC	NTC/PTC
<b>Digital inputs</b>				
Start defrost, pressure switch, energy saving, AUX, generic alarm, serious alarm mode	config	config	config	config
Door switch	pres	pres	pres	pres
<b>Relay outputs</b>				
Compressor	8A	8A	8A	8A
Defrost			8A	no 8A / nc 5A
Fans				
Alarm	8A	16A		
<b>Other</b>				
Hot Key/Prog Tool Kit output	pres	pres	pres	pres
Remote display output	X-REP opt		X-REP opt	
Serial output	RS485	RS485	RS485	RS485
Analog output	4÷20mA opt		4÷20mA opt	
Buzzer	pres	pres	pres	pres
Real time clock				

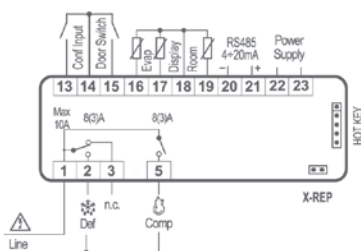
XR130C



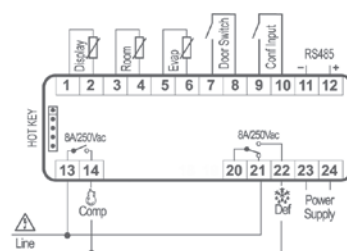
XR130D



XR140C



XR140D



# XR100

## MULTIFUNCTION CONTROLLERS with RS485 OUTPUT for MEDIUM and LOW TEMPERATURE



C: 32x74mm



D: 4 DIN Rail

**XR150C**

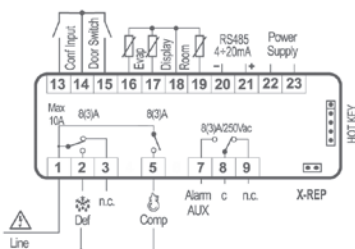
Digital controller for M.T. and L.T. refrigerated applications with electrical or hot gas defrost function, auxiliary relay and built in RS485

**XR160C  
XR160D**

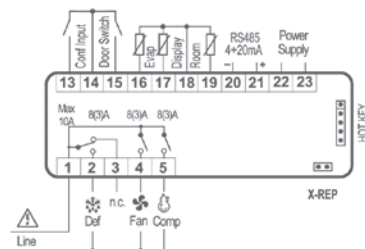
Digital controllers for M.T. and L.T. ventilated applications with door switch capability and built in RS485

FEATURES	XR150C	XR160C	XR160D
<b>Display: n° digits</b>	± 3 d.p.	± 3 d.p.	± 3 d.p.
<b>Power supply</b>	12, 24Vac/dc	12, 24Vac/dc	110, 230Vac
<b>Probe inputs</b>			
Thermostat	NTC/PTC	NTC/PTC	NTC/PTC
Defrost	NTC/PTC	NTC/PTC	NTC/PTC
Display	NTC/PTC	NTC/PTC	NTC/PTC
<b>Digital inputs</b>			
Start defrost, pressure switch, energy saving, AUX, generic alarm, serious alarm mode	config	config	config
Door switch	pres	pres	pres
<b>Relay outputs</b>			
Compressor	8A	8A	8A
Defrost	8A	8A	no 8A / nc 5A
Fans		8A	8A
Alarm	8A		
<b>Other</b>			
Hot Key/Prog Tool Kit output	pres	pres	pres
Remote display output	X-REP opt	X-REP opt	
Serial output	RS485	RS485	RS485
Analog output	4÷20mA opt	4÷20mA opt	
Buzzer	pres	pres	pres
Real time clock			

**XR150C**



**XR160C**



**XR160D**



# XR100

## MULTIFUNCTION CONTROLLERS with RS485 OUTPUT for MEDIUM and LOW TEMPERATURE



C: 32x74mm

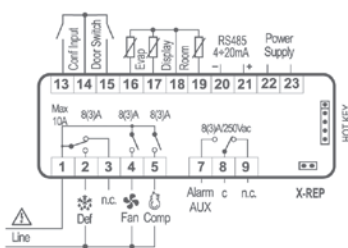


D: 4 DIN Rail

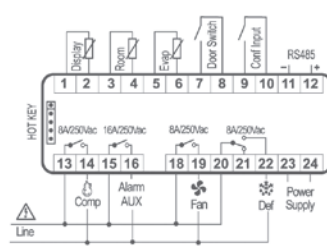
<b>XR170C</b> <b>XR170D</b>	Digital controllers for M.T. and L.T. for ventilated applications with door switch capability, auxiliary relay and built in RS485
<b>XR172C</b>	Digital controller for M.T. and L.T. for ventilated applications with door switch capability, auxiliary relay and built in RS485 for use with slave unit XR40SL
<b>XR40SL</b>	Slave module for XR172C controller with direct 230Vac power supply connection and 20A compressor relay

FEATURES	XR170C	XR170D	XR172C	XR40SL
<b>Display: n° digits</b>	± 3 d.p.	± 3 d.p.	± 3 d.p.	
<b>Power supply</b>	12, 24Vac/dc	110, 230Vac	da XR40SL	24, 110, 230Vac
<b>Probe inputs</b>				
Thermostat	NTC/PTC	NTC/PTC	NTC/PTC	
Defrost	NTC/PTC	NTC/PTC	NTC/PTC	
Display	NTC/PTC	NTC/PTC	NTC/PTC	
<b>Digital inputs</b>				
Start defrost, pressure switch, energy saving, AUX, generic alarm, serious alarm mode	config	config	config	
Door switch	pres	pres	pres	
<b>Relay outputs</b>				
Compressor	8A	8A		20A
Defrost	8A	no 8A / nc 5A		16A
Fans	8A	8A		8A
Alarm	8A	16A		8A
<b>Other</b>				
Hot Key/Prog Tool Kit output	pres	pres	pres	
Remote display output	X-REP opt		X-REP opt	
Serial output	RS485	RS485	RS485	
Analog output	4÷20mA opt		4÷20mA opt	
Buzzer	pres	pres	pres	
Real time clock				

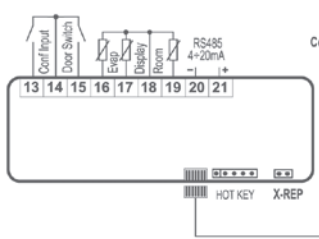
XR170C



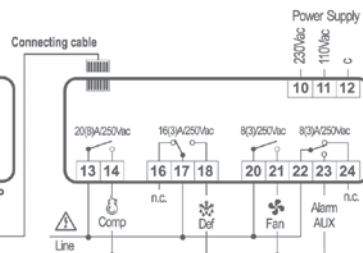
XR170D



XR172C



XR40SL



# XR500

## MULTIFUNCTION CONTROLLERS with RS485 OUTPUT and REAL TIME CLOCK for NORMAL, MEDIUM and LOW TEMPERATURE



C: 32x74mm



D: 4 DIN Rail

XR530C  
XR530D

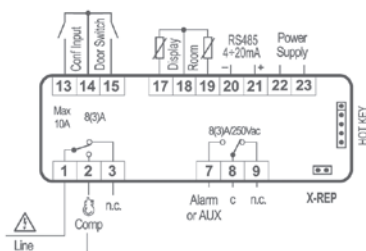
Digital controllers for N.T. with "off cycle" defrost, additional configurable relay, built in RS485 and internal real time clock

XR563D

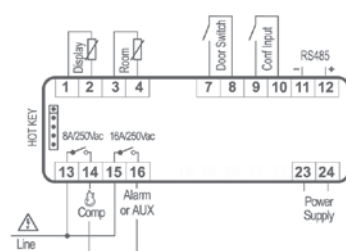
Digital controller for M.T. and L.T. ventilated applications with door switch capability, light relay, built in RS485 and internal real time clock

FEATURES	XR530C	XR530D	XR563D
<b>Display: n° digits</b>	± 3 d.p.	± 3 d.p.	± 3 d.p.
<b>Power supply</b>	12, 24Vac/dc	110,230Vac	110, 230Vac
<b>Probe inputs</b>			
Thermostat	NTC/PTC	NTC/PTC	NTC/PTC
Defrost			NTC/PTC
Display	NTC/PTC	NTC/PTC	NTC/PTC
<b>Digital inputs</b>			
Start defrost, pressure switch, energy saving, AUX, generic alarm, serious alarm mode	config	config	config
Door switch (light for XR563D)	pres	pres	pres
<b>Relay outputs</b>			
Compressor	8A	8A	8A
Defrost			no 8A / nc 5A
Fans			8A
Alarm (light for XR563D)	16A	16A	16A
<b>Other</b>			
Hot Key/Prog Tool Kit output	pres	pres	pres
Remote display output	X-REP opt		
Serial output	RS485	RS485	RS485
Analog output	4÷20mA opt		
Buzzer	pres	pres	pres
Real time clock	pres	pres	pres

XR530C



XR530D



XR563D



# XR500

## MULTIFUNCTION CONTROLLERS with RS485 OUTPUT and REAL TIME CLOCK for MEDIUM and LOW TEMPERATURE



C: 32x74mm



D: 4 DIN Rail

**XR570C**  
**XR570D**

Digital controllers for M.T. and L.T. for ventilated applications with door switch capability, auxiliary relay, built in RS485 and internal real time clock

**XR572C**

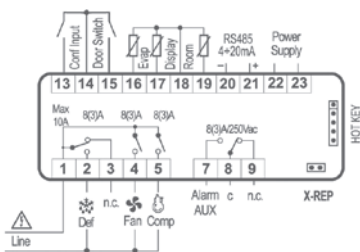
Digital controller for M.T. and L.T. for ventilated applications with door switch capability, auxiliary relay, built in RS485 and internal real time clock for use with slave unit XR40SL

**XR40SL**

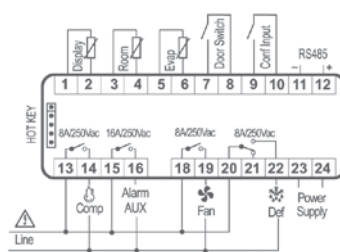
Slave module to be connected to XR572C controller with direct 230Vac power supply connection and 20A compressor relay

FEATURES	XR570C	XR570D	XR572C	XR40SL
<b>Display: n° digits</b>	± 3 d.p.	± 3 d.p.	± 3 d.p.	
<b>Power supply</b>	12, 24Vac/dc	110, 230Vac	da XR40SL	24, 110, 230Vac
<b>Probe inputs</b>				
Thermostat	NTC/PTC	NTC/PTC	NTC/PTC	
Defrost	NTC/PTC	NTC/PTC	NTC/PTC	
Display	NTC/PTC	NTC/PTC	NTC/PTC	
<b>Digital inputs</b>				
Start defrost, pressure switch, energy saving, AUX, generic alarm, serious alarm mode	config	config	config	
Door switch	pres	pres	pres	
<b>Relay outputs</b>				
Compressor	8A	8A		20A
Defrost	8A	no 8A / nc 5A		16A
Fans	8A	8A		8A
Alarm	8A	16A		8A
<b>Other</b>				
Hot Key/Prog Tool Kit output	pres	pres	pres	
Remote display output	X-REP opt		X-REP opt	
Serial output	RS485	RS485	RS485	
Analog output	4÷20mA opt		4÷20mA opt	
Buzzer	pres	pres	pres	
Real time clock	pres	pres	pres	

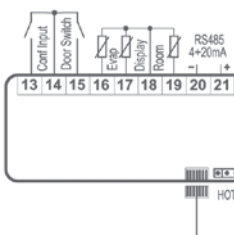
**XR570C**



**XR570D**



**XR572C**



**XR40SL**

