

Universal-XR60CX

The all in one control



General description of the Universal-XR

The Universal-XR has been developed to allow for the refrigeration technician to replace any refrigeration control easily with just three SKUs stocked on their Service Truck. With three voltage options 12/24Vac/dc, 120Vac, and 230Vac. With the press of a few buttons the control can be set up to replace such Dixell controls as; XR10C, XR10CX, XR110C, XR02CX, XR20C and CX, XR120C, XR03CX, XR30CX, XR04CX, XR40CX, XR06CX, XR60CX, XR160C and many other manufacturers controls.

1. Quick start up procedure - Up and running in 5 easy steps

First, please be sure you've got the control that is the correct voltage; For 12 or 24 volt controls use XR60CX-AN1F1, for 120 volt applications use XR60CX-4N1F1, and for 230 volts use the XR60CX-5N1F1. This Quick Start Up section is designed to get you up and running with the minimum of fuss. Just follow these 5 simple steps.

STEP 1		Install the new Universal-R, connect the correct number of probes and connect the wiring See below: 1. Table 1: parameter tC settings 2. Table 2: Typical connections
STEP 2		Turn on power, THEN WITHIN 1 MINUTE COMPLETE STEPS 3, 4 AND 5.
STEP 3		Press the " DOWN " key for 3 seconds and the controller will automatically recognise and adjust itself to the type of probes connected. (The display briefly shows tPd followed by ntC or PtC).
STEP 4		Press the " AUX/tC " key for 3 seconds and the setting of parameter tC is displayed. Use the UP or DOWN keys to adjust to required setting then confirm by pressing SET (see table 1 below).
STEP 5		Press SET for 3 seconds until the °C or °F icon starts to flash, then adjust the SET POINT using the UP or DOWN keys, then press SET again to confirm.

Note: You must complete these steps within 1 minute or you will have to power the control OFF then ON to start set up again or enter the parameters as per the full instructions and adjust your "**tC**" parameter settings manually.

Table 1: parameter "tC" settings

Parameter tC	Type of control	Models replaced	Required probes
1	On / Off thermostat – Heating	XR01CX, XR10C, XR10CX	x 1
2	Off cycle defrost (timed)	XR02CX, XR20C, XR20CX	x 1
3	Off Cycle defrost time initiated / temperature terminated	XR02CX, XR20C-E	x 2
4	Off Cycle defrost time initiated / temperature terminated, Alarm Relay	XR03CX, XR30CX	x 2
5	Electrical / Hot Gas defrost, time initiated / temperature terminated	XR04CX, XR40CX	x 2
6	Electrical / Hot Gas defrost, time initiated / temperature terminated + evap. Fan delay and control	XR06CX, XR60CX	x 2
7	Full open map of parameters configure your own control	Your determination	1 to 3

Note: As you change the parameter "**tC**", defaults change and should be approximately correct for that application but we strongly recommend you check all parameter default values listed in the full instructions to ensure they suit your particular application and make further adjustments if necessary.

2. Change over from F to C or vis-versa

1. Hold the Set & Down (▼) buttons, until HY is displayed, release both buttons then hold the Set and Down (▼) buttons until Pr2 is displayed. Release the buttons.

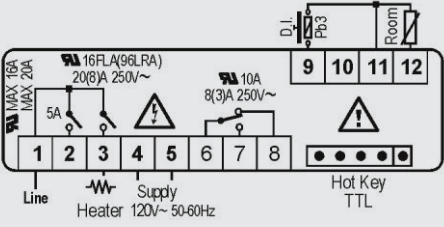
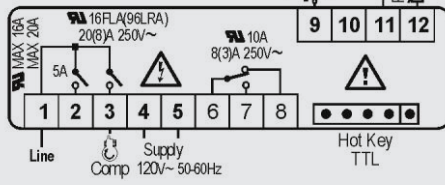
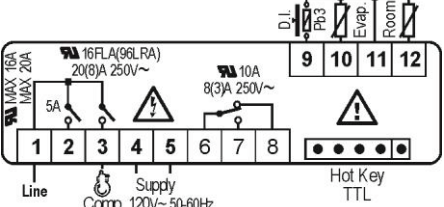
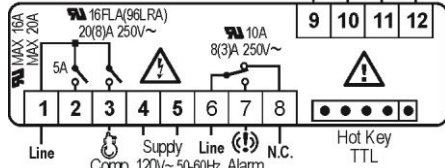
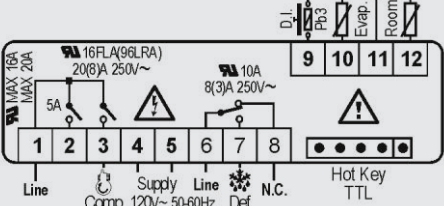
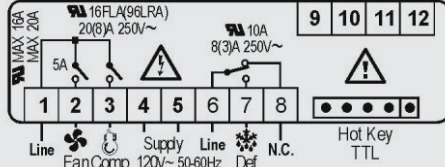
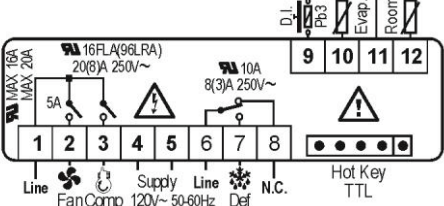
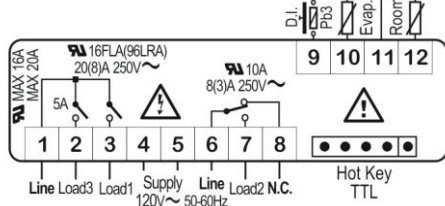
2. Scroll with the Up (▲) button to CF, then press and release Set. Change the 1 to 0, then press and release Set.

3. Scroll down and adjust the ALL, ALU, FST, AFH, ALH, LS, US, rES as well as the HY.

4. Let the control time out to the temp display. Adjust the Set temp by holding the Set until the C or F starts to flash, adjust the set point.

3. Typical connections - for general guidance only

Table 2: typical connections

TC=1 Heating  For 12/24Vac/dc use terminals 4 & 5	TC=2 Cooling, Off Cycle Defrost, Time Ended  For 12/24Vac/dc use terminals 4 & 5
TC=3 Cooling, Off Cycle Defrost, Temperature Ended  For 12/24Vac/dc use terminals 4 & 5	TC=4 Cooling, Off Cycle Defrost, Temperature Ended, Alarm Relay  For 12/24Vac/dc use terminals 4 & 5
TC=5 Cooling, Electric or Hot Gas Defrost Temperature Ended  For 12/24Vac/dc use terminals 4 & 5	TC6= Low Temp, Elec. Or Hot Gas Defrost, Temp. Ended, Fan Control  For 12/24Vac/dc use terminals 4 & 5
TC7= Open Map to be Configured for any application  For 12/24Vac/dc use terminals 4 & 5	Actual Label on The Control in the Box.  For 12/24Vac/dc use terminals 4 & 5

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