

# 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, <b>THEN WITHIN 1 MINUTE COMPLETE STEPS 3, 4 AND 5.</b>
STEP 3		Press the <b>"DOWN"</b> key for 3 seconds and the controller will automatically recognise and adjust itself to the type of probes connected. (The display briefly shows <b>tPd</b> followed by <b>ntC</b> or <b>PtC</b> ).
STEP 4		Press the <b>"AUX/tC"</b> key for 3 seconds and the setting of parameter <b>tC</b> is displayed. Use the <b>UP</b> or <b>DOWN</b> keys to adjust to required setting then confirm by pressing <b>SET</b> (see table 1 below).
STEP 5		Press <b>SET</b> for 3 seconds until the <b>°C</b> or <b>°F</b> icon starts to flash, then adjust the SET POINT using the <b>UP</b> or <b>DOWN</b> keys, then press <b>SET</b> 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. Typical connections - for general guidance only

Table 2: typical connections

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

