Dixell Universal XR Controller for Reach-In Applications



Universal XR Replacement Controller

Universal Images





Introduction

- The Universal XR controller offers a 7 in 1 solution for Heating/ Medium & Low Temperature/ Defrost/ Fans/ Alarms etc. in just one control.
- It is equipped with a flashing visual alarm and buzzer. Each instrument is fully configurable through special parameters that can be easily programmed through the keypad.

Key Features

- One Control for many applications.
- Easy & intuitive programming mode.
- Easy one button detection of probe type.
- Hot key for backup and restore.
- XWEB/ Monitoring system connection capability.

Training & Development Basic Operation Overview

Parameter "tC" Settings

Parameter	Settings	Type of Control
	1	Heating, On / Off thermostat
	2	Cooling, Off Cycle Defrost, Time Ended
	3	Cooling, Off Cycle Defrost, Temperature Ended
tC	4	Cooling, Off Cycle Defrost, Temperature Ended, Alarm Relay
	5	Cooling, Electric or Hot Gas Defrost Temperature Ended
	6	Low Temp, Elec. Or Hot Gas Defrost, Temp. Ended, Fan Control
	7	Open Map to be Configured for any application

Training & Development Basic Operation Overview

Available Probes ("tC" Settings)

Parameter	Settings	Available Probes						
	1	Room	-	DI/ Pb3				
	2	Room	-	DI/ Pb3				
	3	Room	Evaporator	DI/ Pb3				
tC	4	Room	Evaporator	DI/ Pb3				
	5	Room	Evaporator	DI/ Pb3				
	6	Room	Evaporator	DI/ Pb3				
	7	Room	Evaporator	DI/ Pb3				

TC = 1 Heating









TC = 6 Low Temp, Elec or Hot Gas Defrost, Temp Ended, Fan Control









Basic Operation Overview



- The regulation is performed according to the temperature measured by the thermostat probe with a positive differential from the set point: if the temperature increases and reaches set point plus differential the compressor is started and then turned off when the temperature reaches the set point value again.
- In case of fault in the thermostat probe the start and stop of the compressor are timed through parameters "COn" and "COF".
- Programming can be done manually by pressing the desired buttons and by using a HOTKEY for quick and easy way.



Basic Operation Overview

Control of Evaporator Fans

- FnC=C_n fans will switch ON and OFF with the compressor and not run during defrost.
- FnC=o_n fans will run even if the compressor is OFF, and not run during defrost. (Default Setting)
- FnC=C_Y fans will switch ON and OFF with the compressor and run during defrost.
- FnC=o_Y fans will run continuously also during defrost.
- FSt Fan Stop Temperature Fans will not run until PR2 - evaporator temperature probe drops below this value (Default Setting=46).

Fast Freezing

- Timed alternate setpoint to quick chill product.
- When defrost is not in progress, it can be activated by holding the UP arrow key for about 3s until (*) icon lights.
- The compressor (LLS) operates in continuous mode for the time set through the "CCt" parameter.
 - (Default Setting=0.00) Resolution = 10 minutes.
- Setpoint is adjusted by value of CCS parameter
 - (Default Setting= -5)
- The continuous cycle can be terminated before the end of the set time using the same activation key, press the UP arrow button for about 3s.



Basic Operation Overview

Energy Saver Mode

- Acts like a second cooling setpoint
- Activated by pressing
 button, or digital input
- -54 to 54 range
- HES = (**Default Setting=0**)

Other Features

- Temperature probe calibration
- Faulty Probe run cycle (15 min ON, 30 min OFF default)
- Display update delay after defrost available (default to 0 min)
- Door open alarm
- Alarm relay output (MT tC4 only)
- Second digital input configurable
- Two levels of parameter menus



Training & Development User Interface

Image



UNIVERSAL XR

UP : to browse the parameter codes and increases display value. View most recent High Temp recorded

DOWN : to browse the parameter codes and decreases display value. View most recent Low temp recordded

 ENERGY SAVING : Allows the control to use the HES offset parameter to change the set point. Can be set for ON/OFF as well.

Getting Started

Step 1C: Wiring Connection

- tC = 3 : Medium Temp with Off Cycle Defrost (Time Initiated/Temp Terminated) – 2 probes
- 1. Set the wiring first before powering up the device.
- Wire the NTC or PTC probe on terminals 11 and 12 for the room temp and terminals 10 and 11 for the evap temp. You can only use one type of probe (NTC or PTC) for the room temp and evap temp.
- 3. Connect the **cooling** activation on terminal **3**.
- 4. Power up the device and proceed to Step 2.



Getting Started Cont...

Step 2:Probe Detection

NOTE: Steps 2 – 4 should be done within 1 minute after you powered up the device.

- 1. Press the **DOWN** key for **3 seconds** to **automatically** detect and set the **probe**.
- 2. The display should briefly show **tPd**.
- 3. Depending on the **type of probe** you connected, the display will show **ntC** or **PtC**.







Getting Started Cont...

Step 3: Setting the Type of Control (tC)

- 1. Press the **AUX/tC** key for 3 seconds.
- 2. The **tC** parameter should appear. Press **SET** key to modify the parameter.
- 3. Use the **UP** or **DOWN** keys to adjust to the required setting.
- 4. Press again the **SET** key to confirm the setting.

Note: Always set "tC" first before other programming. As you move "tC" between settings 1 to 7, all non-relevant parameters will be hidden. After setting "tC", it will be possible to modify all the other relevant parameters only.









Getting Started Cont...

Step 4: Modify the Setpoint

- Press the SET key for 3 seconds until the °C or °F is flashing.
- 2. Use the **UP** or **DOWN** keys to adjust the setpoint.
- 3. Press again the **SET** key to confirm the setpoint.



Instruction Sheet

Universal-XR60CX

The all in one control





The UniversityXI has been developed to allow for the refrigeration technician to replace any refrigeration control ensity with jurt three SKUs stacked on their service Turck. With three voltage options 11/24/wc/ck 120/wc, and 220/wc. With the press of a few battoms the control can be set up to replace such Diell control size SKIT0C, XX10CC, XX110CC, XX12CC, XX20C and CX, XX12CC, XX10CC, XX10CC, XX10CC, XX10CC, XX20C can dia syst there mainsfrasteric control.

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

First, please be sure you've got the costrol thet is the correct voltage; For 12 or 24 volt controls ure XR&OC+ANTFI, for 120 volt applications ure XR&OC+ ANTFI, and for 220 volts use the XR&OC+3NTFI. This Quick XR#I Up section is designed to get you up and running with the minimum of fuss. Just follow these 3 simple targe.

STEP 1	1099°	Install the new Universal R, connect the correct number of probes and connect the wiring See below: 1. Table 1: parameter KL settings 2. Table 2: Typical connections
STEP 2	\triangle	Turn on power, THEN WITHIN 1 MINUTE COMPLETE STEPS 7, 4 AND 3.
STEP 3	$\square \lor$	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 atC or PtC).
STEP 4	🖅 🖬 tC	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	🗊 SET	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 thes ON to start set up again or exter the parameters as per the full instructions and adjust your "te" parameters attings manually.

Table 1: parameter "tC" settings

probes
x1
x1
x 2
x 2
x 2
x 2
1 to 3

. Note: A year change the parameter "tC", default: change and abaild be approximately correct for that application betwe strongly recommend you check all parameter def values listed in the full instructions to ensure they unity or particular application and make further adjustments if necessary.



EMERSON.

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

1. Hold the Set & Down (${\bf v}$) buttons, until HY is displayed, release both buttons then hold the Set and Down (${\bf v}$) buttons until Pr2 is displayed. Release the buttons.

 Scroll with the Up (A) 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



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the HY.

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

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.

Scan this code for the full menual



Universal XR Support

- Updated Instruction Sheet With QR Code
- Updated Technical Slides
- youtube instruction videos
- Online training module
- New Full Line Brochure
- Universal XR Display Card





Accessories



Climate Sync - StorySlab



Climate Sync - StorySlab

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