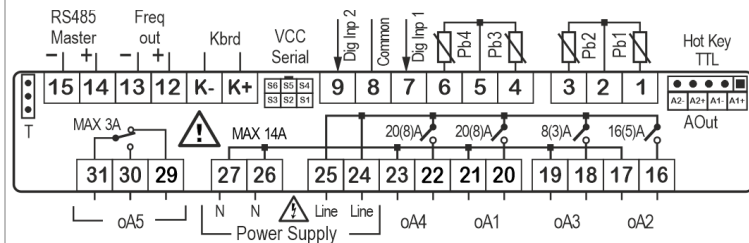
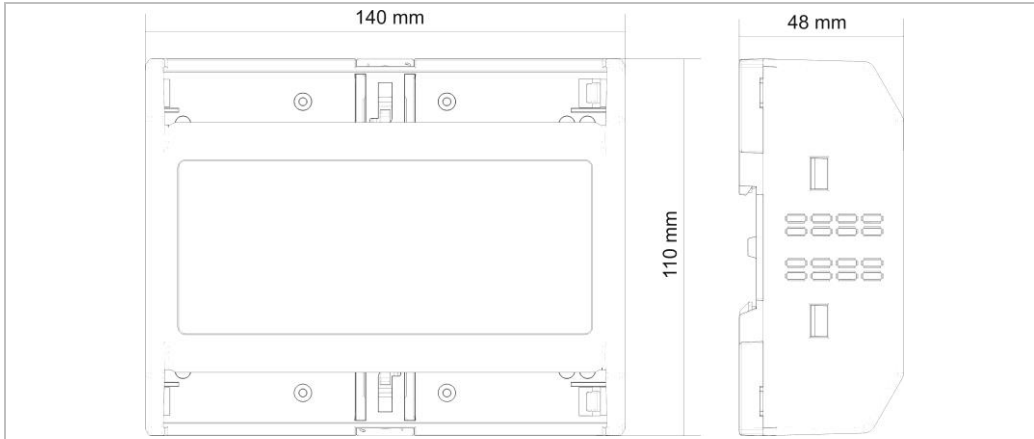


XWi70K



Manuals on Dixell website:



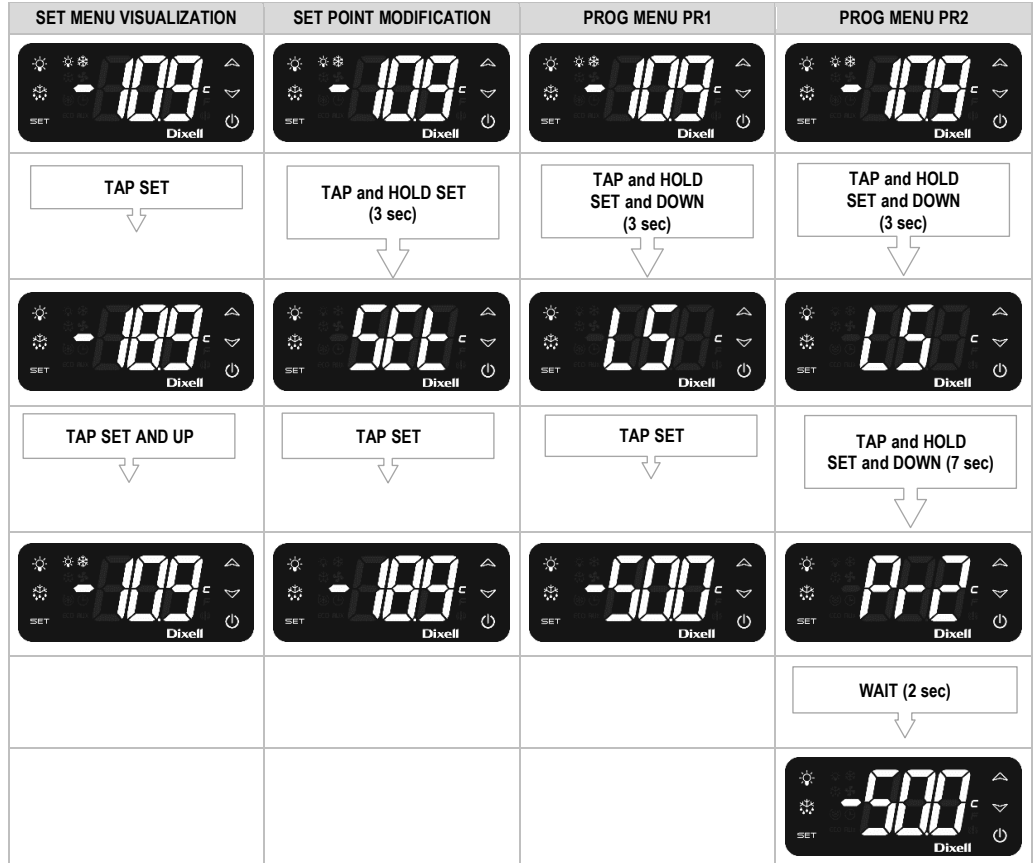
CONTACT: [dixell.service@emerson.com](mailto:dixell.service@emerson.com)

I/O	DESCRIPTION	I/O	DESCRIPTION
oA1 to oA5	Relay outputs	T	Termination line for 2-wire RS485 Master
K+	Keyboard connector, positive line	S1 to S6	I/O for serial compressor control
K-	Keyboard connector, negative line	AOut: A1+	Analogue output 1, positive pin
Pb1 to Pb4	Temperature probes	AOut: A1-	Analogue output 1, negative pin
Dig Inp 1	Digital input 1	AOut: A2+	Analogue output 2, positive pin
Dig Inp 2	Digital input 2	AOut: A2-	Analogue output 2, negative pin
Hot Key / TTL	Hotkey connector and slave serial port (TTL levels)	Freq out +	Frequency output, positive pin (max current 10mA)
VCC Serial	VCC serial port, special cables required	Freq out -	Frequency output, negative pin (max current 10mA)
Line	Power Supply "Line"	RS485 Master +	2-wire RS485 port, positive line
N	Power Supply "Neutral"	RS485 Master -	2-wire RS485 port, negative line

SAFETY INFO

- This manual is part of the product and should be kept near the instrument for easy and quick reference.
- The instrument shall not be used for purposes different from those described hereunder. It cannot be used as a safety device.
- Dixell Srl reserves the right to change the composition of its products, even without notice, ensuring the same and unchanged functionality.
- In case of failure or faulty operation contact the local distributor or "Dixell S.r.l." with a detailed description of the fault.
- The instrument must not be opened.
- Check the application limits and the correct power supply voltage before proceeding.
- Do not expose to water or moisture: use the controller only within the operating limits avoiding sudden temperature changes with high atmospheric humidity to avoid condensation
- Warning: disconnect the power supply and all other electrical connections before any kind of maintenance.
- Observe the maximum current value which can be applied to each relay (see Technical Data).
- Ensure that the wires for probes, loads and the power supply are separated and far enough from each other, without crossing or intertwining.

USER INTERACTION (\*)



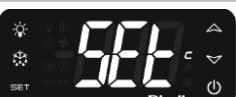


USER INTERFACE (\*)

SCREEN NAME	DESCRIPTION
Home	This screen shows temperature value, measurement unit and active alarms only. This is the first screen after power on or after exit from other status.
Parameter Menu	These screens enable the modification of all parameter values.
Set Point Menu	This screen enables the modification of the Set Point value.

BUTTON	DESCRIPTION	BUTTON	DESCRIPTION
	To switch the light output		To start a manual defrost
	(UP) To see the MAX value for stored temperature. When in programming mode, it browses the parameters or increases the current parameter value.		(DOWN) To see the MIN value for stored temperature. When in programming mode, it browses the parameters or decreases the current parameter value.
SET	To display current set point. When in programming mode, it selects a parameter or confirm an operation.	ECO	To activate or deactivate the energy saving mode

	To switch the instrument on or off (Stand-by mode).	<b>AUX</b>	To activate or deactivate the auxiliary output
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SCREEN	APPEARANCE	DESCRIPTION
HOME		This screen shows temperature value, measurement unit and active alarms only. This is the first screen after power on or after exit from other status.
Parameter Menu		These screens enable the modification of all parameter values.
Set Point Menu		This screen enables the modification of the Set Point value.

**TECHNICAL SPECIFICATIONS**

FEATURES	DESCRIPTION
Housing	Self-extinguishing PC
Dimensions	8-DIN, 140x176x148
Mounting	DIN rail mounting device
Degree of Protection	<b>NEMA (UL 50e)</b> Indoor use, Open Type <b>IP (IEC/EN 60529)</b> IP00
Power Supply	230Vac ±10%, 50/60Hz; 110Vac ±10%, 50/60Hz;
Overvoltage Category	III
Rated Power	110VAC: 10VA; 230VAC: 10VA
Rated Impulse Voltage	4000V
Display Supported Models	CH620, V620H, T620x and T820x (x=H or T) (**)
Software Class	A
Terminal blocks / Terminal Connections	Plug-in or screw terminal block, wire section between 0,5 and 2,5 mm2 Max tightening force: 0.4 N/m for 5,0mm pitch
Data Storing	<b>Real Time Clock:</b> Data maintenance up to 6 months with lithium battery. <b>Other parameters:</b> internal EEPROM.
Type of Action	1.B
Pollution Degree	2, non-condensing humidity
Ambient Operating Temperature and Humidity	<b>IEC/EN</b> 0T50°C; 20-85 rH% (non-condensing humidity) <b>UL-CAN/CSA</b> -10T50°C; 20-85 rH% (non-condensing humidity)
Shipping and storage temperature	-40T85°C; 20-85 rH% (non-condensing humidity)
Resistance to Heat	UL 94 V-0
Measurement range	<b>NTC:</b> -40T110°C, resolution 0.1°C or 1°C (selectable); <b>PT1000:</b> -100T150°C, resolution 0.1°C or 1°C (selectable); <b>PTC:</b> -50T150°C, resolution 0.1°C or 1°C (selectable)
Accuracy	±1°C relative to the full scale
Inputs	4 NTC, PTC or PT1000 (configurable); Up to 2 voltage free contacts
I/O port	HOT-KEY: MAX voltage allowed is 5 VDC. DO NOT CONNECT ANY EXTERNAL POWER SUPPLY.
Serial Outputs	TTL standard available on 5-pin port (HOT-KEY connector); 2-wire RS485 with termination; 6-wire for VCC; Maximum cable length = 2m

FEATURES	DESCRIPTION			
	Ref	Nominal	UL	IEC
Relay Outputs (standard)	<b>oA1, oA4</b>	SPST 20A, 250VAC	Resistive load 14A, 110/230Vac, 30K cycles Motor load 2HP (12FLA/72LRA), 230Vac, 30K cycles Motor load 1HP (16FLA/96LRA), 110Vac, 30K cycles Motor load 4.9FLA/29.4LRA, 110/230Vac, 30K cycles	14(8)A, 230Vac, 30K cycles
	<b>oA2, oA4</b>	SPST 16A, 250VAC	Resistive load 10A, 230 Vac, 30K cycles	14A (NO), 230Vac, 50K cycles
	<b>oA3</b>	SPST 8A, 250VAC	Resistive load 10A, 110/230Vac, 30K cycles Motor load 1/2HP, 230Vac, 30K cycles Motor load 4.9FLA/29.4LRA (NO), 110/230Vac, 30K cycles	8(3)A (CO), 230Vac, 100K cycles
	<b>oA5</b>	SPDT 7A 250VAC	Resistive load 4A, 250Vac, 100K cycles	4A, 250Vac, 100K cycles
Relay Outputs (optional, on request only)	<b>oA2</b>	SPST 8A, 250VAC	Resistive load 10A, 110/230Vac, 30K cycles Motor load 1/2HP, 230Vac, 30K cycles Motor load 4.9FLA/29.4LRA (NO), 110/230Vac, 30K cycles	8(3)A (CO), 230Vac, 100K cycles
	<b>oA2, oA4</b>	SPST 16A inrush, 250VAC	Resistive load 14A, 230Vac, 30K cycles	14A, 230Vac, 50K cycles
	<b>oA3</b>	SPST 10A 250VAC	Resistive load 10A, 230Vac, 50K cycles	10A, 230Vac, 25K cycles
Maximum ampacity	12A Plug-in terminal block, 14A other types, 3A on insulated relay oA5			
Analogue Outputs	<b>1Ao</b>	0-10Vdc; Min load = 10k ohm 4-20mA; Max load = 500 ohm		A1+: V+ or I+ A1-: GND or I-
	<b>2Ao</b>	0-10Vdc; Min load = 10k ohm 4-20mA; Max load = 500 ohm		A2+: V+ or I+ A2-: GND or I-
	<b>Freq</b>	Frequency output; Supply max voltage = 5Vdc; Max supply current = 10mA; Duty cycle = 50%; Range = 0 to 166 Hz; Maximum cable length = 2m		12: FREQ+ 13: GND
Purpose of control	Operating control			
Construction of control	Incorporated control, intended to be used in Class I equipment			
Approvals	R290/R600a: relays tested according to IEC EN60079:0 and IEC EN60079:15 IEC/EN 60730-1; IEC/EN 60730-2-9 UL 60730-1; UL 60730-2-9 CAN/CSA-E60730-1; CAN/CSA-E60730-2-9 Tested according to the requirements of the relevant subclauses of IEC/EN 60335-2-89 in conjunction with IEC/EN 60335-1			

(\*) This information is based on the usage of a CH620 keyboard connected to the XWi70K power board.  
(\*\*) See the documentation of one of these compatible keyboards for more information.




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