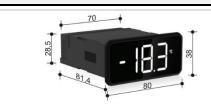
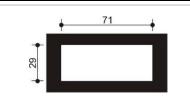
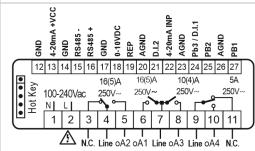
FULL TOUCH – XH78T







Manuals on Dixell website:



CONTACT: dixell.service@emerson.com

PIN	Label	Description	PIN	Label	Description
12	4-20mA GND	Ground for 4-20mA sensor	20	AGND	Ground for digital inputs and remote display
13	4-20mA +VCC	Power supply for 4-20mA sensor	21	D.I.2	Digital input 2
14	GND	Ground for RS485 serial port	22	4-20mA INP	Analogue input for 4-20mA sensor
15	RS485-	Negative terminal for RS485 (-) serial port	23	AGND	Ground for analogue and digital inputs
16	RS485+	Positive terminal for RS485 (+) serial port	24	Pb3/D.I.1	Analogue input 3 (temperature only) / Digital input 1
17	GND	Ground for analogue output 0-10Vdc	25	Pb2	Analogue input 2 (temperature only)
18	0-10VDC	Analogue output 0-10Vdc	26	AGND	Ground for analogue and digital inputs
19	REP	Remote display	27	Pb1	Analogue input 1 (temperature only)

SAFETY INFO

- This manual is part of the product and should be kept near the instrument for easy and guick reference.
- The instrument shall not be used for purposes different from those described hereunder. It cannot be used as a safety device.
- Dixell SrI 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 INTERFACE

SCREEN	APPEARANCE	SCREEN	APPEARANCE
Home	- - - - - - - - - -	Status Visualization	* - *
Virtual Keyboard	© Fn AUX KCO ∜ ()	Set Point Menu	SEE
Programming Mode	PrS	Parameter Menu - ALL	

Parameter Menu - X9	·	Parameter Menu - Groups	* 5-8
Upload Parameters		Download Parameters	doL
Device Locked	LoC	Info Menu	

SCREEN NAME	DESCRIPTION				
Home	Show temperature value, measurement unit and active alarms only. It is the first screen after power on or after exit from other status.				
Status Visualization	This screen shows activated functions and regulation outputs (compressor, ventilators) overlapped with temperature and/or humidity value				
Virtual Keyboard	This screen shows available functions. Activated function will blink when this screen is visualized.				
Setpoint menu	This screen enables the modification of setpoints: St1 for temperature, SH1 for humidity				
Programming Mode	This screen enables the modification of parameters: ALL, GrP or "X9" mode can be used.				
Hotkey Management	UPL = upload parameters from device to HOTKEY, doL = download parameters from HOTKEY to device				
Info Menu	To scroll all I/O variables and status (probes, digital inputs, digital outputs, etc.)				
Device Locked	V-Swipe from Home screen to lock or unlock the device				

USER INTERACTION

HOME NAVIGATION	SET POINT TEMPERATURE	PROG MENU	PROG MENU - ALL	
-	SEL	PrG	*	
H-SWIPE	TAP & HOLD ANYWHERE	TAP & HOLD ANYWHERE	TAP & HOLD ANYWHERE	
♥ Fn MM NCO ₩ ①	*5E	* 86	*5E	
H-SWIPE	TAP & HOLD ANYWHERE	H-SWIPE	H-SWIPE	
SEE	* - - c	. Cub	16	
H-SWIPE	V-SWIPE	H-SWIPE	TAP & HOLD ANYWHERE	
P-6	* _	·PAS	* - { - { - { - - - - - -	
H-SWIPE	TAP & HOLD SET TO SAVE	H-SWIPE	V-SWIPE	
ınF	*5H	* 		

LALL	_	ęuien refere			
GESTURE HOW-TO		DESCRIPTION			
ONE TAP	Press a specific area of the screen with a finger for 1 sec	Switch ON / Switch OFF: when in Virtual Keyboard, use this to turn on/off a specific function. When in Programming mode, use this to select a parameter or a parameter value.			
TAP and HOLD	Press anyplace of the surface with a finger for 1 or 3 sec (depending on parameter bPt)	Enter / Save: use this to enter programming mode or parameter menu and to save modifications. When in Virtual Keyboard, use this on the "ONOFF" to switch OFF and ON the device.			
H-SWIPE	Drag a finger across surface, from left to right or from right to left	Browse: use horizontal swipe (right to left or left to right) to browse through HOME, Virtual Keyboard and Info View. When in Programming menu: use horizontal swipe to browse through parameter menu.			
V-SWIPE	Drag a finger across surface, from top to bottom or from bottom to top (overlapping only one of the digits)	Modify: use vertical swipe (from top to bottom or bottom to top) to change a parameter value.			

TECHNICAL SPECIFICATIONS	S				
FEATURES	DESCRIPTION				
Housing	Self-extinguishing PC/PC+ABS				
Dimensions	Front 38x80	mm; case	depth 81mm		
Mounting device	Panel, 71x2	9mm panel	cut-out		
Degree of Protection	NEMA – UL 50e Indoor use only, type 1 enclosure				
Degree of Protection	IP-IEC/EN 6	0529	Front panel: IP66	Rear Housing: IP20	
Power Supply	100 to 240V	AC±10%, 5	0/60Hz		
Overvoltage Category	II				
Rated Power	100-240VA	C: 3VA			
Rated Impulse Voltage	2500V				
Display	White displa	y, LED type	e, 3 digits with decimal point and multi-fund	ction icons	
Buzzer	Internal, alw	ays present	i		
Software Class	Α				
Terminal blocks / Terminal Connections	Plug-in or screw terminal block, wire section between 0,5 and 2,5 mm2 Max tightening force: 0.3 N/m for 3,5mm pitch, 0.4 N/m for 5,0mm pitch				
Data Storing	Real Time (Other parar		maintenance up to 6 months with lithium rnal flash.	battery.	
Type of Action	1.B				
Pollution Degree	2, non-condensing humidity				
Ambient Operating Temperature and	IEC/EN 0T55°C; 20-85 rH% (non-condensing humidity)				
Humidity	UL-CAN/CSA -20T55°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	NTC: -40T110°C, resolution 0.1°C or 1°C (selectable); PT1000: -100T150°C, resolution 0.1°C or 1°C (selectable); PTC: -50T150°C, resolution 0.1°C or 1°C (selectable) 4-20mA: 0.0 to 100.0% RH; resolution 0.5% RH with Dixell probe models "XH20P"				
Accuracy	NTC, PTC, PT1000: ±1% compared to the full scale 4-20mA: ±1% compared to the full scale				
	Up to 4 NTC, PTC or PT1000 (configurable); Up to 2 voltage free contacts				
Inputs	A 3-wire analogue input 4-20mA with onboard power supply; Terminal 2: max supply voltage = 12Vdc; max supply current = 25mA				
		Nominal	UL	IEC	
Relay Outputs	oA1	SPST 16A, 250VAC	Resistive load 11A (NO), 240Vac, 30k c; Motor load 10FLA/60LRA (NO), 240Vac cycles; Pilot Duty B300 (NO), 6k cycles		

FEATURES	DESCRIPTION					
	oA2	SPDT 16A, 250VAC	Resistive load 11A (NO), 240Vac, 30k cycles; Motor load 10FLA/60LRA (NO), 240Vac, 30k cycles; Pilot Duty B300 (NO), 6k cycles	10(4)A (NO), 240Vac, 100k cycles		
	oA3	SPST 10A, 250VAC	Resistive load 4A (NO), 230Vac, 100k cycles; Pilot Duty C300 (NO), 100k cycles	4A (NO), 240Vac, 25k cycles		
	oA4	SPDT 5A, 250VAC	Resistive load 5A (NO), 230Vac, 100k cycles; Motor load 4FLA/4LRA (NO), 100k cycles	5A (NO/NC), 240Vac, 100k cycles		
	oA4	SPST 5A, 250VAC	Resistive load 4A (NO), 240Vac, 100k cycles; Motor load 1/8HP (NO), 120/240Vac, 30k cycles; Pilot duty C300 (NO), 100k cycles	5A (NO), 240Vac, 100k cycles; 1(1)A (NO), 240Vac, 100k cycles		
Optional	oA4	SPDT 7A, 250Vac	Resistive load 5A (NO), 240Vac, 100k cycles; Motor load 4FLA/4LRA (NO), 240Vac, 100k cycles	5A (NC), 240Vac, 100K cycles; 5A (NO), 240Vac, 20K cycles		
	oA1	SPST 16A inrush, 250VAC	Resistive load 11A, 240Vac, 50k cycles;	11A, 240Vac, 30k cycles		
Maximum ampacity on terminal 7	9A (COM O	A (COM OA1 OA3)				
Analogue Outputs	1Ao			A3: Freq A4: GND		
	2Ao	0-10Vdc; Max supply current=5mA Accuracy: ±1% compared to the full scale		A1: V+ A2: GND		
Remote Display	XH-REP	Max cable length: 10 m; Do not connect third party devices.				
I/O port	HOT-KEY: MAX voltage allowed is 5 VDC. DO NOT CONNECT ANY EXTERNAL POWER SUPPLY.					
Purpose of control	Operating control					
Construction of control	Built-in control, intended to be used in Class I or Class II equipment					
Approvals	R290/R600a: relays tested according to IEC EN60079:0 and IEC EN60079:15 IEC 60730-1; IEC 60730-2-9 UL 60730-1; UL 60730-2-9 CAN/CSA E60730-1; CAN/CSA E60730-2-9					





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