

FULL TOUCH – XRi30T AND XRi31T

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DIXELL
EMERSON

Please put this label near the controller in order to keep all information you need at your fingertips!

CONTACT: dixell.service@emerson.com

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 INTERFACE

SCREEN	APPEARANCE	SCREEN	APPEARANCE
Home		Info	
Virtual Keyboard		Programming Mode	
Parameter Menu		Set Point Menu	

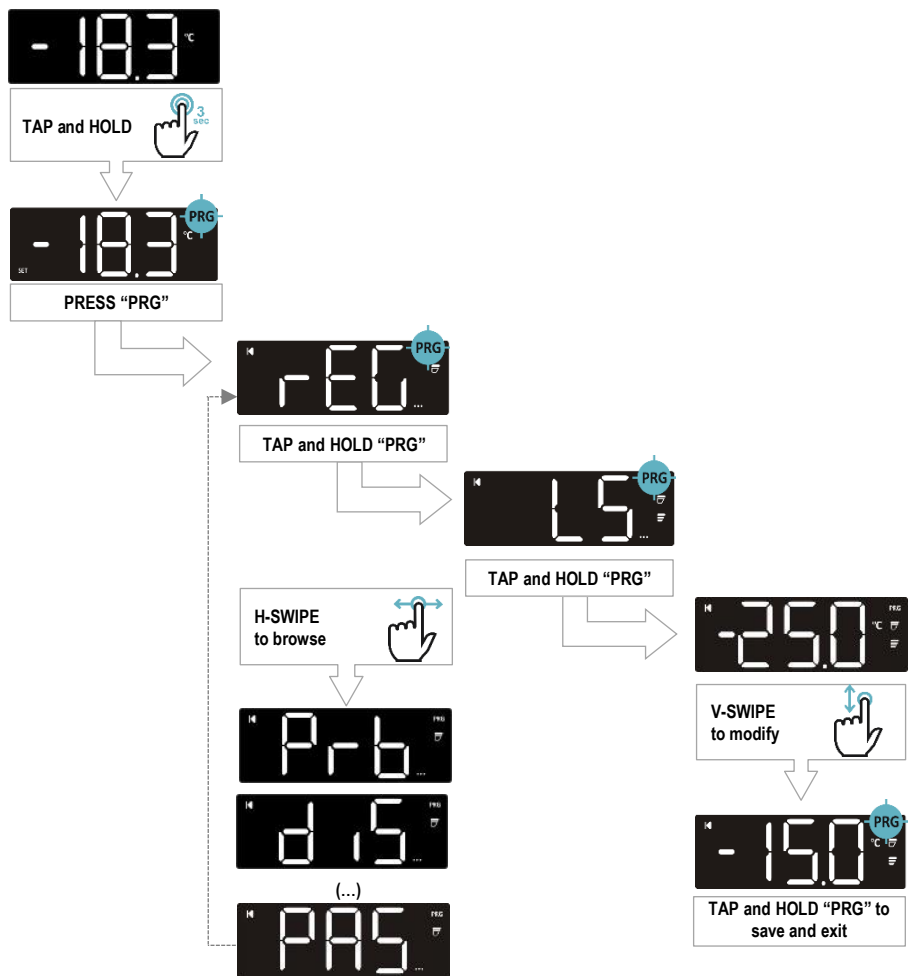
SCREEN NAME	DESCRIPTION
Home	This screen shows temperature value, measurement unit and active alarms only. This is the first screen after power on or after exit from other status.
Virtual Keyboard	This screen shows available functions. Activated function will blink when this screen is visualized.
Info	This screen shows activated functions and regulation outputs (compressor, ventilators)
Programming Mode	This screen enables the modification of Set point or parameters.
Parameter Menu	These screens enable the modification of all parameter values.
Set Point Menu	This screen enables the modification of the Set Point value.

USER INTERACTION

HOME NAVIGATION	PROG MENU ACTIVATION	SET POINT MODIFICATION	PROG MENU NAVIGATION
H-SWIPE	TAP and HOLD	TAP and HOLD on SET	TAP and HOLD on PRG
H-SWIPE			

GESTURE	HOW-TO	DESCRIPTION
ONE TAP	Press a specific area of the surface with a finger for 1 sec	Switch ON / Switch OFF: when in Virtual Keyboard, use this to turn on/off a specific function. When into programming mode, use this to select a parameter or a parameter value.
TAP and HOLD	Press anyplace of the surface with a finger for 3 sec	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.

PROGRAMMING MENU



and icons are blinking

TECHNICAL SPECIFICATIONS

FEATURES	DESCRIPTION
Housing	Self-extinguishing PC
Dimensions	Front fascia 38x80 mm; case depth 81mm
Mounting device	Panel, 71x29mm panel cut-out
Degree of Protection	NEMA – UL 50e Indoor use only, type 1 enclosure IP-IEC/EN 60529 Front panel: IP66 Rear Housing: IP00
Power Supply	230Vac ±10%, 50/60Hz; 110Vac ±10%, 50/60Hz; 100 to 240VAC±10%, 50/60Hz
Overvoltage Category	II
Rated Power	12VAC: 3VA; 110VAC: 4VA; 230VAC: 4VA; 100-240VAC: 3VA

FEATURES	DESCRIPTION												
Rated Impulse Voltage	2500V												
Display	White display, LED type, 3 digits with decimal point and multi-function icons												
Buzzer	Internal, always present												
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: 0.3 N/m for 3,5mm pitch, 0.4 N/m for 5,0mm pitch												
Data Storing	Real Time Clock: Data maintenance up to 6 months with lithium battery. Other parameters: internal flash.												
Type of Action	1.B												
Pollution Degree	2, non-condensing humidity												
Ambient Operating Temperature and Humidity	IEC/EN 0T60°C; 20-85 rH% (non-condensing humidity) UL-CAN/CSA -20T60°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)												
Accuracy	±1% compared to the full scale												
Inputs	Up to 4 NTC, PTC or PT1000 (configurable); Up to 2 voltage free contacts												
Relay Outputs	<table border="1"> <thead> <tr> <th></th> <th>Nominal</th> <th>UL</th> <th>IEC</th> </tr> </thead> <tbody> <tr> <td>oA1</td> <td>SPST 16A, 250VAC</td> <td>10FLA, 60LRA, 30k cycles 12A resistive, 230Vac, 50k cycles Pilot Duty B300, 6k cycles</td> <td>10(4)A, 240 Vac, 50-60 Hz, 100K cycles</td> </tr> <tr> <td>oA2</td> <td>SPDT 8A, 250VAC</td> <td>½ hp, 230 Vac, 30k cycles 10A resistive, 230Vac, 30k cycles Pilot Duty B300, 30k cycles</td> <td>8(3)A, 240 Vac, 50-60 Hz, 50K cycles</td> </tr> </tbody> </table>		Nominal	UL	IEC	oA1	SPST 16A, 250VAC	10FLA, 60LRA, 30k cycles 12A resistive, 230Vac, 50k cycles Pilot Duty B300, 6k cycles	10(4)A, 240 Vac, 50-60 Hz, 100K cycles	oA2	SPDT 8A, 250VAC	½ hp, 230 Vac, 30k cycles 10A resistive, 230Vac, 30k cycles Pilot Duty B300, 30k cycles	8(3)A, 240 Vac, 50-60 Hz, 50K cycles
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Maximum ampacity on common terminal of oA1 and oA2	16 A												
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I/O port	HOT-KEY: MAX voltage allowed is 5 VDC. DO NOT CONNECT ANY EXTERNAL POWER SUPPLY. XH-REP: remote display support available only for specific models. XH-REP must be connected to the HOTKEY port. When in use, all the other functions are disabled (no Pb4, no d.1.2, no TTL available).												
Purpose of control	Operating control												
Construction of control	Incorporated 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												

(*) Available only for XRi31T

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