

# XR-T - XD-T

SOLUTIONS pour les APPLICATIONS REFRIGÉRÉES  
avec TECHNOLOGIE FULL TOUCH



Une gamme complète de produits composée de XR-T et XD-T : telle est la famille innovante de régulateurs Full Touch pour la réfrigération commerciale et la restauration, introduisant une nouvelle façon d'interagir avec votre système. Ils fournissent plus d'informations "au bout des doigts", une facilité de nettoyage, une interaction intuitive et plus encore. Ce ne sont là que quelques-unes des nombreuses caractéristiques de ces nouveaux régulateurs. Avec leur design épuré et élégant, ils sont la solution idéale pour les vitrines de crèmes glacées ou de pâtisseries, les armoires chauffantes ou réfrigérées, les caves à vin ou les comptoirs réfrigérés par exemple.

- Interface utilisateur à touches capacitives
- Afficheur interactif et ultra-large
- Compatible avec les réfrigérants à faible GWP
- Résistant à l'eau et à la poussière



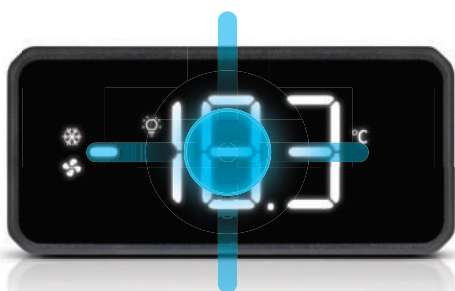
### Tap et maintien

Activer/Désactiver/Enregistrer



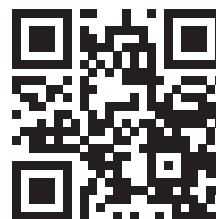
### Une Tap

Charge ON/Charge OFF



### Glisser

Changer d'écran/Naviguer/Modifier



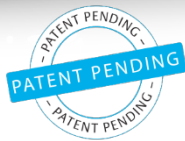
Restez à l'écoute sur [www.fulltouch.info](http://www.fulltouch.info)



EMERSON™

# XR-T

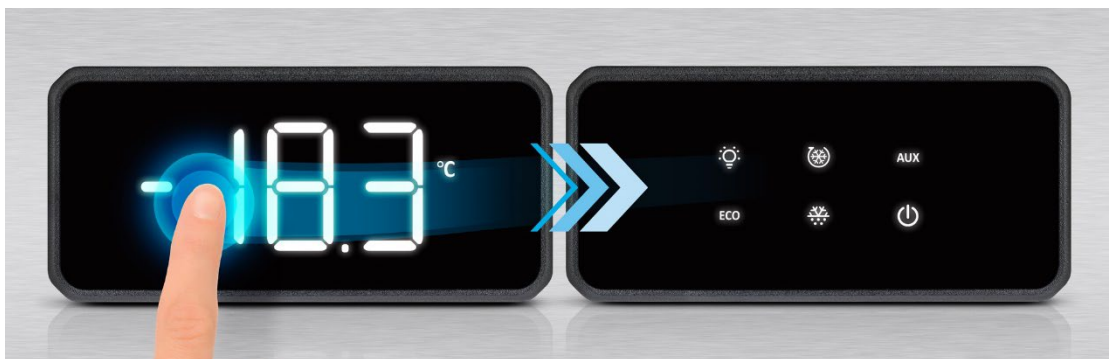
Full Touch refrigeration controllers



tutorials and manuals  
AVAILABLE NOW  
on [fulltouch.info](http://fulltouch.info)

XR-T & XRi-T are the first models of the innovative family of Full Touch controllers, dedicated to commercial refrigeration and food service, which introduces a new way to interact with your system. A greatest number of information, easy to clean, intuitive interaction, and more... are only some of several functions that characterize these new series.

Their sleek design makes these controllers particularly appreciated and the ideal solution for: ice cream freezers, pastry refrigerators, warm cabinets, refrigerated cabinets, wine cellars, showcases and refrigerated counters. In particular XRi-T is designed for plug-in unit with variable speed compressors and/or fans.



## 1. Main applications

The XR-T & XRi-T families are designed for commercial refrigeration and food service and represent the ideal solution for both standard and high efficiency cabinets.

### 1.1 Standard cabinets

Equipped with ON/OFF compressor and ventilators, limited energy saving options normally obtained through setpoint change at predefined intervals (the setpoint change needs a real time clock).



### 1.2 High efficiency cabinets

Equipped with variable speed compressors and/or variable speed ventilators. Energy saving can be performed by using a basic algorithm for setpoint change when there is no activity (no door openings).

Lights can be controlled when in energy saving mode.

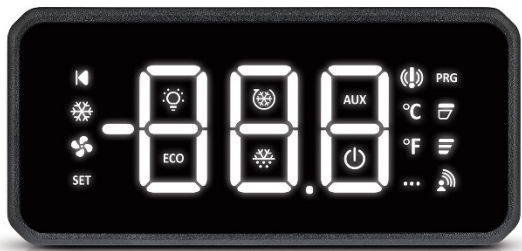
An external motion sensor (Dixell X-MOD model) can be used for modifying both setpoint and light status depending on the people presence on the surroundings.

An optimized defrost control can be activated to avoid energy waste due to long defrost phases or to avoid conditions with iced evaporator due to short defrost phases.

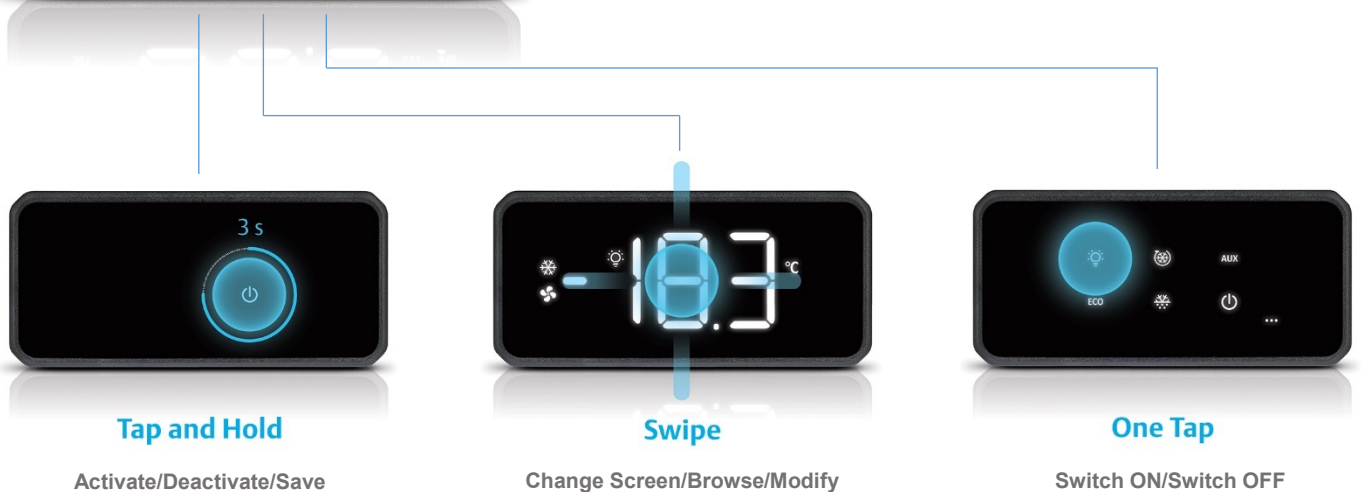


## 2. Gestures

Dixell has created an innovative dynamic touch user interface, based on a standard LED display, where the user can navigate in an intuitive and interactive way across the available functions. Interactivity and intuitiveness are enabled by gestures commonly used in smart devices. Being optimized for cabinet applications, the user can benefit of a simplified interface where only relevant information is shown, which increases its own intuitiveness.



The new display with icons shows complete information about the status of the machine. The whole display area is used to interact with the device. Specific gestures are used to enable or disable functions, browse through screens and operational modes and modify the configuration of the device.



## 3. Features and advanced functions



Several advanced functions are available for the XR-T and XRi-T families that Dixell has implemented to enable management of refrigerated applications even more efficient.

- Capacitive touch user interface
- Interactive and ultra-wide display
- Compatible with Low GWP Refrigerants
- Water and dust resistant
- Reduced learning curve through simplified navigation and common gestures
- Quick installation and service operation
- Analogue outputs to control variable speed compressor and variable speed ventilators
- Ready to be used with dimmerable lights
- Developed for high efficiency cabinets
- Optimal control of the temperature of the application through continuous variable speed control of compressors and ventilators
- Optimized defrost operations to avoid energy waste



## 4. Hardware features

### 4.1 Models

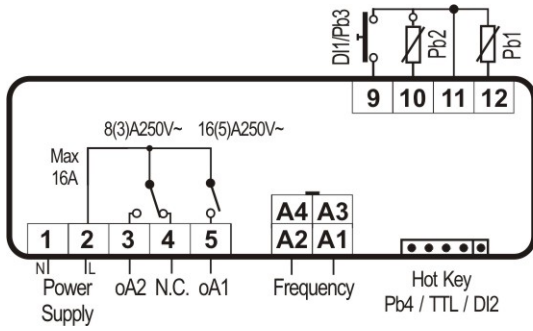
<b>HIGH EFFICIENCY CABINETS</b>	<b>XRi30T</b>	Full touch controller for plug-in unit with variable speed compressor 
	<b>XRi31T</b>	Full touch controller for plug-in unit with variable speed compressors and/or fans 
<b>STANDARD CABINETS</b>	<b>XR60T</b>	Full touch controller for ventilated applications
	<b>XR70T</b>	Full touch controller with auxiliary relay for ventilated applications

### 4.2 Model features

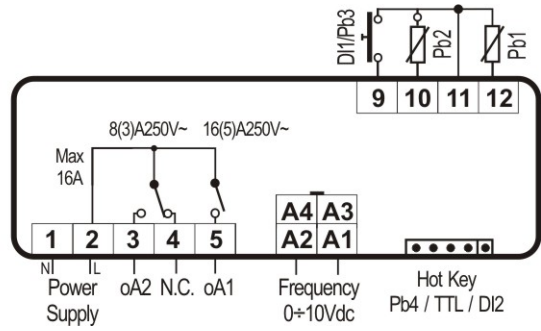
	<b>XRi30T</b>	<b>XRi31T</b>	<b>XR60T</b>	<b>XR70T</b>
<b>Display: number of digits</b>	3 digits with decimal point	3 digits with decimal point	3 digits with decimal point	3 digits with decimal point
<b>Power supply</b>	110, 230Vac or 90÷260Vac	110, 230Vac or 90÷260Vac	110, 230Vac or 90÷260Vac	110, 230Vac or 90÷260Vac
<b>Probe Inputs</b>				
Thermostat, defrost, evaporator fans, condenser, AUX	3x NTC/PTC or PT1000 all configurable	3x NTC/PTC or PT1000 all configurable	up to 4x NTC/PTC or PT1000 all configurable	up to 4x NTC/PTC or PT1000 all configurable
<b>Digital Inputs</b>				
Generic alarm, alarm lockout, pressure switch alarm, door switch, start defrost, AUX, energy saving, ON/OFF, map change	up to 2x configurable	up to 2x configurable	up to 2x configurable	up to 2x configurable
<b>Relay outputs</b>				
ON/OFF, defrost, evaporator fans, condenser fans, alarm, light, AUX, energy saving	16A + 8A SPDT all configurable	16A + 8A SPDT all configurable	16A + 8A +8A SPDT all configurable	16A + 8A + 8A SPDT + 5A all configurable
<b>Other</b>				
Hot Key output	yes	yes	yes	yes
Frequency output	yes	yes	-	-
0-10Vdc output	-	yes	-	-
Serial output	TTL	TTL	TTL	TTL
Buzzer	configurable	configurable	configurable	configurable
Real time clock	optional	optional	optional	optional

### 4.3 Wiring diagrams

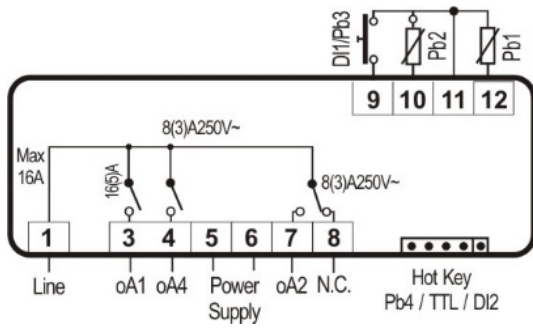
**XRi30T**



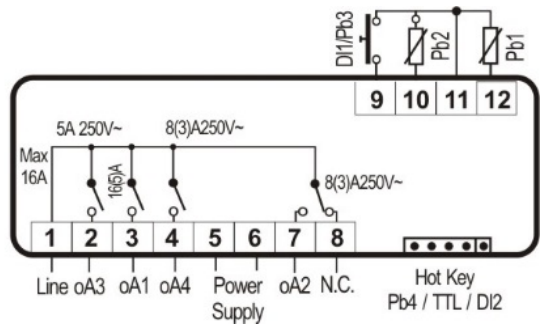
**XRi31T**



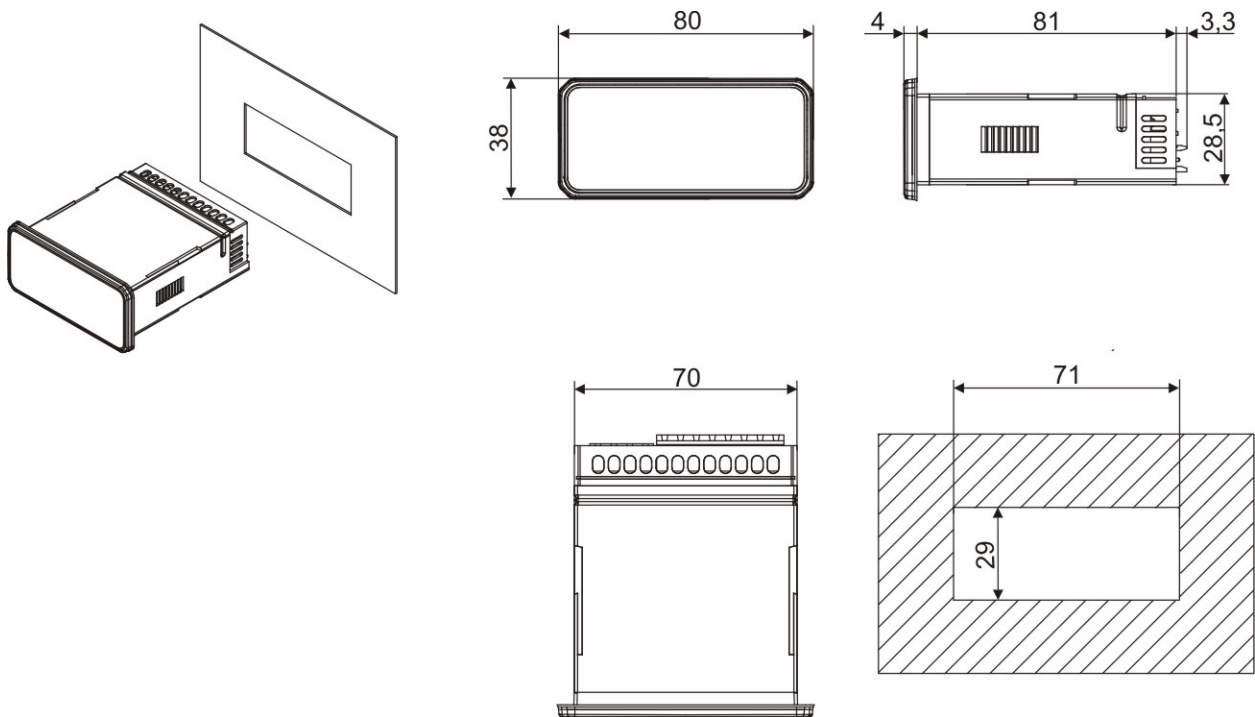
**XR60T**










**XR70T**



### 4.4 Dimensions



## 5. Main accessories

	<p><b>X-MOD</b> Motion sensor with 2m connection cable, able to detect human presence nearby</p>
	<p><b>HOT KEY</b> Key for a quick and easy parameter update</p>
	<p><b>XH-REP</b> Remote display with CH frontal</p>
	<p><b>XJ485CX</b> Serial interface with 0,2m multipolar connector that converts the TTL output into an RS485 signal</p>
	<p><b>XJ485USB-KIT</b> USB to RS485 serial (2-wire) converter for monitoring a single or multiple controller connected via the network to a computer with a USB port and with Wizmate® software installed.</p>
	<p><b>CAB/EM3</b> 2m adapter cable for EMBRACO variable speed compressor (for XRI31T)</p>
	<p><b>CAB/SE3</b> 2m adapter cable for SECOP variable speed compressor (for XRI31T)</p>