

# ECP200 EXPERT

Control panel for cold rooms with single-phase compressor up to 2 HP, specially designed to provide safety, protection, control and easy-installation – all in one unit.  
It allows a complete control of all the components on a refrigeration system.



## APPLICATIONS

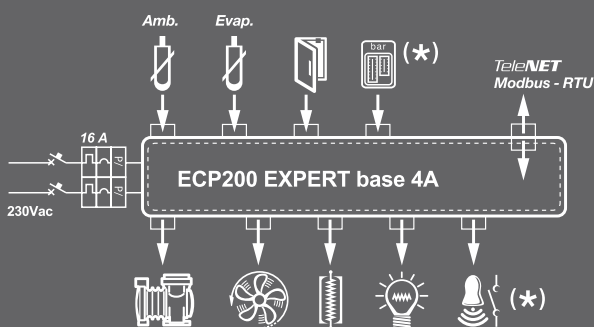
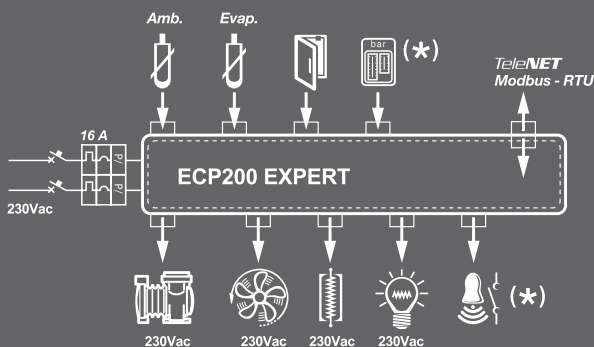
- Complete control of single-phase static or ventilated refrigeration systems up to 2 HP, with off-cycle or electrical defrosting and direct or pump-down compressor stop.
- Control of evaporating unit only with freon solenoid or remote motor condenser enabling.

## MAIN CHARACTERISTICS

- Direct control of compressor, defrosting heaters, evaporator fans and room light with live outputs directly connectable to the various devices or free voltage contacts for control of condensing unit with its own electrical panel.
- Built-in differential magnetothermic breaker for protection and cut-off of refrigeration unit.
- Innovative, stylish design. Transparent cover for access to magnetothermic breaker, all with IP 65 protection rating.
- Auxiliary relay with parameter-configured activation (alarm, temperature set-point, direct control via frontal pushbutton, door heater elements, remote motor condenser unit enabling, freon solenoid control enabling where compressor pump-down operation is applied).
- RS485 for connection to TeleNET industrial supervision network or Modbus-RTU standard protocol.
- Easy installation and opening thanks to new hinged cover.

## CONNECTION DIAGRAMS

( \* ) = Configurable function





TECHNICAL CHARACTERISTICS	ECP 200 EXPERT	ECP 200 EXPERT BASE 4A
<b>DIMENSIONS</b>	262 x 168 x 97 mm	262 x 168 x 97 mm
<b>WEIGHT</b>	0,6 Kg	0,6 Kg
<b>POWER SUPPLY</b>		
<b>VOLTAGE</b>	230 V AC ± 10% 50/60 HZ	230 V AC ± 10% 50/60 HZ
<b>MAX ABSORBED POWER (ELECTRONIC CONTROL)</b>	~ 7 VA	~ 7 VA
<b>AMBIENT CONDITIONS</b>		
<b>WORKING TEMPERATURE</b>	-5 ÷ +50°C	-5 ÷ +50°C
<b>STORAGE TEMPERATURE</b>	-30 ÷ +70°C	-30 ÷ +70°C
<b>RELATIVE HUMIDITY</b>	< 90% Rh	< 90% Rh
<b>GENERAL CHARACTERISTICS</b>		
<b>CONNECTABLE SENSOR TYPES</b>	NTC 10 kΩ	NTC 10 kΩ
<b>RESOLUTION</b>	0,1 °C	0,1 °C
<b>PROBE READ PRECISION</b>	± 0,5 °C	± 0,5 °C
<b>READ RANGE</b>	-45 ÷ +45 °C	-45 ÷ +45 °C
<b>OUTPUT CHARACTERISTICS</b>		
<b>COMPRESSOR</b>	1500 W (2HP)	1500 W (2HP) FREE VOLTAGE CONTACT
<b>DEFROST</b>	3000 W (AC1)	3000 W (AC1) FREE VOLTAGE CONTACT
<b>FANS</b>	500 W (AC3)	500 W (AC3) FREE VOLTAGE CONTACT
<b>ROOM LIGHT</b>	800 W (AC1)	800 W (AC1) FREE VOLTAGE CONTACT
<b>CONFIGURABLE ALARM CONTACT / AUX (VOLTAGE-FREE CONTACT)</b>	PRESENT	PRESENT
<b>SUPERVISION SYSTEM</b>	TELENET / MODBUS-RTU	TELENET / MODBUS-RTU
<b>GENERAL ELECTRIC PROTECTION</b>		
<b>BIPOLAR DIFFERENTIAL MAGNETOTHERMIC CIRCUIT BREAKER</b>	16A Id = 300 mA Switching power 4,5 kA Id = 30 mA (on request)	16A Id = 300 mA Switching power 4,5 kA Id = 30 mA (on request)
<b>INSULATION AND MECHANICAL CHARACTERISTICS</b>		
<b>BOX PROTECTION RATING</b>	IP 65	IP 65
<b>BOX MATERIAL</b>	SELF-EXTINGUISHING ABS	SELF-EXTINGUISHING ABS
<b>INSULATION TYPE</b>	Class II	Class II