ECP202 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.

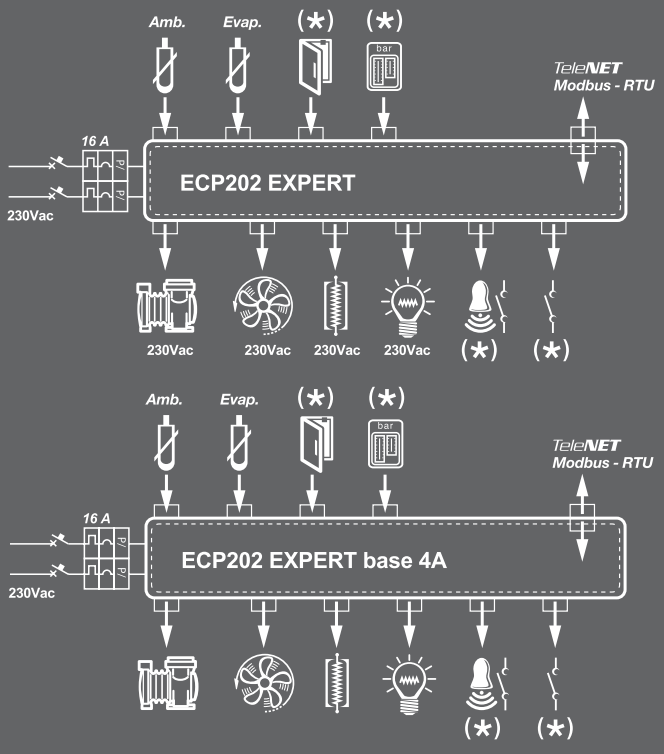


APPLICATIONS

- 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 single-phase evaporating unit with solenoid valve and remote motor condenser enabling.

CONNECTION DIAGRAMS

(*) = Configurable function



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.
- Built-in differential magnetothermic breaker for protection and cut-off of refrigeration unit.
- Innovative, stylish design. Lockable transparent cover for access to magnetothermic breaker, all with IP65 protection rating.
- 2 auxiliary relays with parameter-configured activation (alarm, temperature set-point, direct control via frontal pushbutton, door heater elements, remote motor condenser unit enabling, solenoid valve control enabling where compressor pump-down operation is applied, stand-by).
- RS485 for connection to TeleNET industrial supervision network or Modbus-RTU standard protocol.
- Easy installation and opening thanks to new hinged cover.
- Can be configured for hot applications or cold applications.
- Functions for energy saving.





TECHNICAL CHARACTERISTICS	ECP 202 EXPERT	ECP 202 EXPERT BASE 4A
DIMENSIONS	263 x 180 x 96 mm	263 x 180 x 96 mm
WEIGHT	0,6 kg	0,6 kg
POWER SUPPLY		
VOLTAGE	230 V AC ±10% 50-60 HZ	230 V AC ±10% 50-60 HZ
MAX ABSORBED POWER (ELECTRONIC CONTROL)	~ 7 VA	~ 7 VA
AMBIENT CONDITIONS		
WORKING TEMPERATURE	-5 ÷ +50 °C	-5 ÷ +50 °C
STORAGE TEMPERATURE	-30 ÷ +70°C	-30 ÷ +70°C
RELATIVE HUMIDITY	< 90% RH	< 90% RH
GENERAL CHARACTERISTICS		
CONNECTABLE SENSOR TYPES	NTC 10 kΩ	NTC 10 kΩ
RESOLUTION	0,1 °C	0,1 °C
PROBE READ PRECISION	±0,5 °C	±0,5 °C
READ RANGE	-45 ÷ +99 °C	-45 ÷ +99 °C
OUTPUT CHARACTERISTICS		
COMPRESSOR	1500 W (2HP)	1500 W (2HP) FREE VOLTAGE CONTACT
DEFROST	3000 W (AC1)	3000 W (AC1) FREE VOLTAGE CONTACT
FANS	500 W (AC3)	500 W (AC3) FREE VOLTAGE CONTACT
ROOM LIGHT	800 W (AC1)	800 W (AC1) FREE VOLTAGE CONTACT
CONFIGURABLE ALARM CONTACT / AUX 1 (VOLTAGE-FREE CONTACT)	PRESENT	PRESENT
CONFIGURABLE ALARM CONTACT / AUX 2 (VOLTAGE-FREE CONTACT)	PRESENT	PRESENT
SUPERVISION SYSTEM	TELENET / MODBUS-RTU	TELENET / MODBUS-RTU
GENERAL ELECTRIC PROTECTION		
BIPOLAR DIFFERENTIAL MAGNETOTHERMIC CIRCUIT BREAKER	16 A ID = 300 mA SWITCHING POWER 4,5 kA ID = 30 mA (ON REQUEST)	16 A ID = 300 mA SWITCHING POWER 4,5 kA ID = 30 mA (ON REQUEST)
INSULATION AND MECHANICAL CHARACTERISTICS		
BOX PROTECTION RATING	IP65	IP65
BOX MATERIAL	SELF-EXTINGUISHING ABS	SELF-EXTINGUISHING ABS
INSULATION TYPE	Class II	Class II