

ATR131 Controller for refrigeration technology

Ordering code

Cold stores
Refrigerated cabinets
Commercial refrigeration
Freezing, deep-freezing



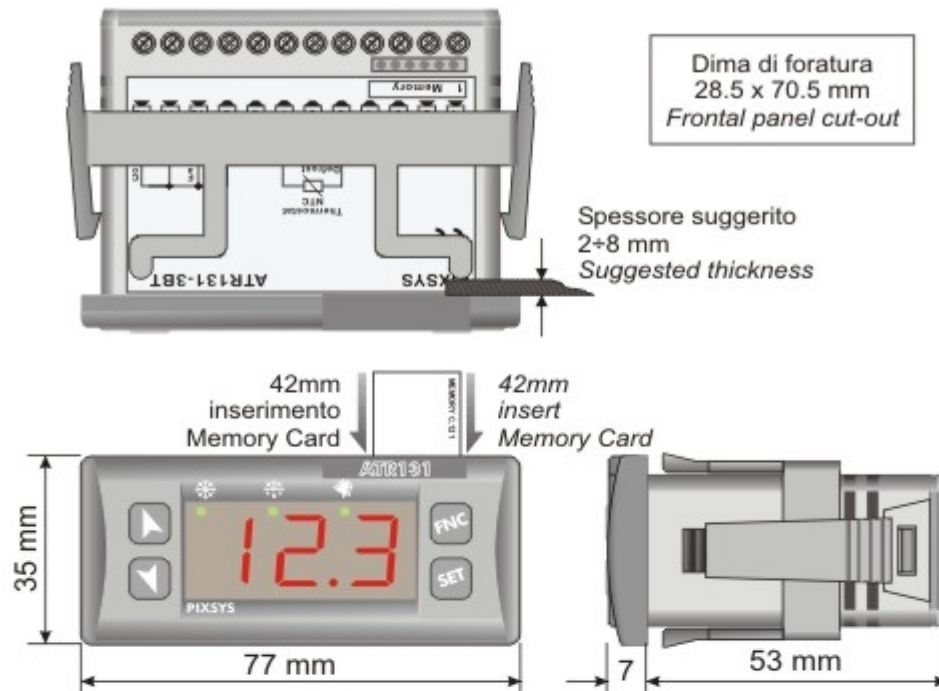
Description

ATR131 is a digital controller size 32x74mm for refrigeration technology. Two versions are available: with single relay for compressor (with timed defrost) or with 3 relays for the management of compressor, defrost and evaporator fan. Temperature control is ON/OFF with hysteresis. Compressor stops at reaching of setpoint and restarts when temperature exceeds setpoint plus hysteresis. The version with 3 relays includes 2 defrost modes: electrical (compressor stops) or hot gas (compressor keeps working). Other programmable functions: defrost frequency, time counting mode, temperature at defrost end, max. duration. Sensor on evaporator and relay of fan are used to control defrost cycle: it is possible to set temperature for fan switch-off, delay at switch-on after defrost, combined operating of fan and compressor. High and low temperature alarms can be excluded for a programmable time, after defrost or at switch-on of the device. Different operations are selectable to protect compressor against short cycle. RS485 with Modbus RTU / Slave protocol available as option. Memory Card for quick configuration

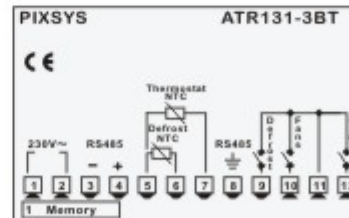
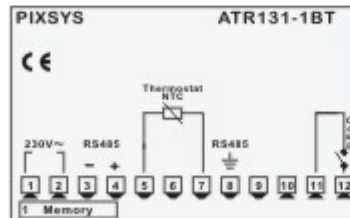
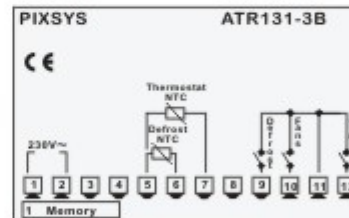
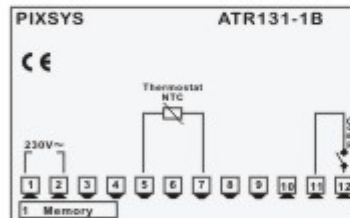
Technical data

SIZE: 32x74(frontal)x58mm
POWER SUPPLY: 230Vac 50/60Hz +/- 15%
POWER CONSUMPTION: 2W
DISPLAY: 3 red Digits, green LEDs, decimal point
OPERATING CONDITIONS: 0...40°C, 0..95rH%
INPUTS: 2 NTC
OUTPUTS:
Compressor: relay 10A
Defrost: relay 8A
Fan: relay 5A
CONTROL : ON/OFF with hysteresis
ACCURACY: 0.5%±1digit
SAMPLING TIME: 66ms
SEALING: IP54 Frontal (IP66 with gasket), IP30 Box, IP20 Terminal blocks
COMMUNICATION: RS485, MODBUS-RTU
CONFIGURATION: parameters protected by password
Memory Card for serial production

Installation



Modello / Model :



MODEL	INPUTS	OUTPUTS	POWER SUPPLY
ATR131-1B	Configurabile / Selectable	1 Relays + Serial	230 Vac +/-10% 50/60 Hz
ATR131-1BT		1 Relays	
ATR131-3B		3 Relays	
ATR131-3BT		3 Relays + Serial	