



▶▶ ATR243 Multifunction Controller

▶▶ Ordering code

Metalworking furnaces
 Heating elements control
 Refrigeration
 Footwear machinery
 Plastics extrusion, injection moulding
 Dryers
 Load cells control
 Plastics machinery
 Motorised valves control
 Signal converter
 Woodworking machinery
 Pharmaceutical industry
 Cold stores
 Remote control via RS485
 Amperometric control



▶▶ Description

Controller 48x48mm, 2-4 setpoints, frontal extraction of electronics. One analog input configurable by parameter for up to 18 different sensors/signals.
 2-4 Outputs configurable as relays(also as Open/Close logic for motorised valves control), SSR, 4...20mA, 0...10V signal (both for command or re-scalable retransmission of process/setpoint).
 The switching power supply with extended range 24...230Vac/Vdc does not require any jumpers setting.
 Control modes: On/Off, PID + Autotuning, Heating/Cooling PID with neutral zone.
 Software features include the launch Tuning and the selection of 2-4 setpoints by digital input, the optional manual reset of output by frontal keyboard ("Limit controller"), Latch-on function for sensors calibration (including load cells), a programmable cycle of 3 steps . Optional features are the serial communication RS485-ModbusRTU and load monitoring function (Loop Break Alarm) with amperometric transformer TA.
 Sealing IP65 with frontal gasket.
 Optional Memory Card to copy all parameters, available also with internal battery therefore not requiring to power up the unit.
 Software application LABSOFTVIEW for Windows enables setting and monitoring of parameters on PC.
 CE, UL-CSA approved

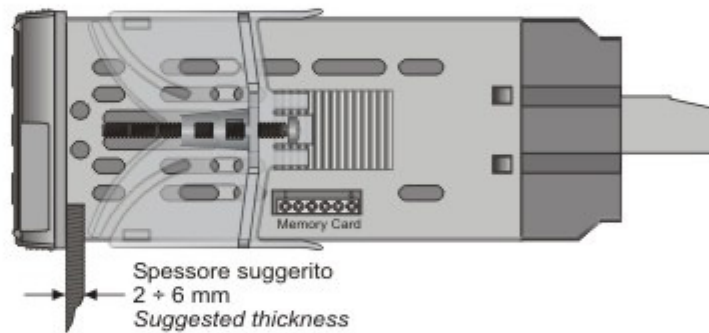
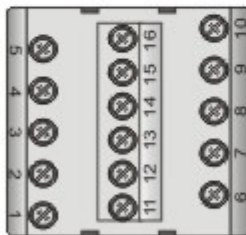
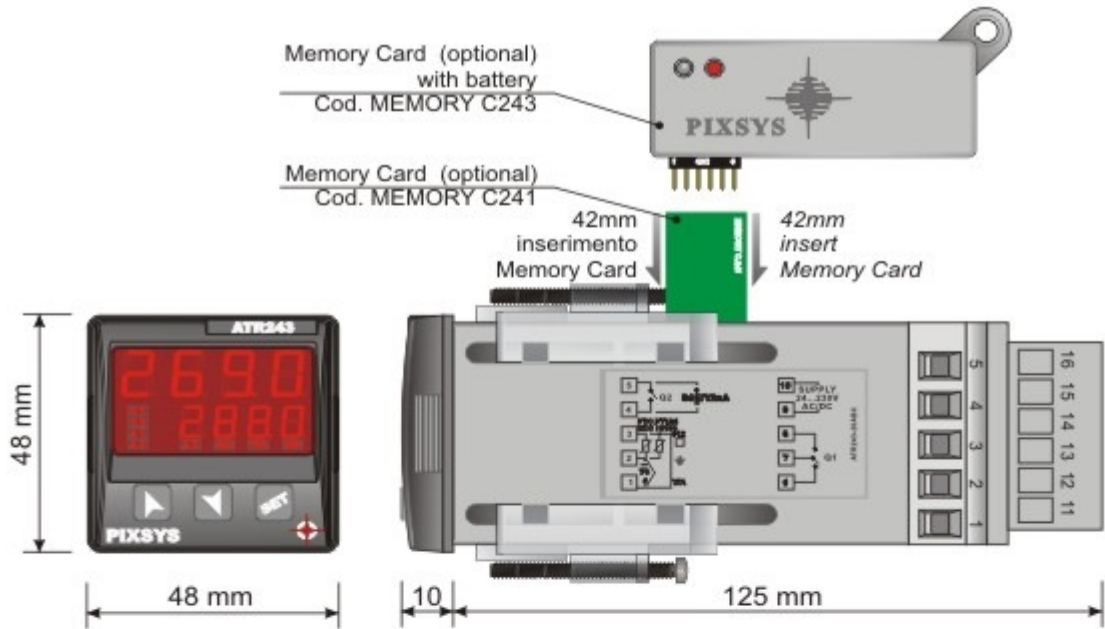
▶▶ Technical data

SIZE: 48x48(frontal)x122,5mm(deph)
 SUPPLY: 24...230 Vac / Vdc +/- 15% 50/60Hz
 CONSUMPTION: 3W
 DISPLAY: dual 4 digits, 8 red LEDs, decimal point
 OPERATING CONDITIONS: 0-45°C, 35..95rH%
 INPUTS: 1 configurable TC K, J, S, R, PT100 (2ranges), NI100, PT1000, PT500, PTC1K, NTC10K
 0...10V, 0/4...20mA, 0...40mV
 Potentiometer 6KΩ / 150KΩ, TA 50mA.
 OUTPUTS
 ATR243-20ABC : 2 relays 5A resistive OR 1 relay + 1 logic SSR 12V-30mA / 4..20mA / 0...10Volt for control or retransmission (4000 points accuracy)
 ATR243-21ABC-T : 2 relays 5A resistive + 1 logic SSR 12V-30mA / 4..20mA / 0...10Volt for control or retransmission (4000 points accuracy) + RS485 Modbus RTU (57600 baud max) + Input TA 50ma for Loop Break Alarm
 ATR243-31ABC : 3 relays 5A resistive + 1 logic SSR 12V-30mA / 4..20mA / 0...10Volt for control or retransmission (4000 points accuracy) + Input TA 50ma for Loop Break Alarm
 DIGITAL INPUT: Tuning Start, Setpoint change, selection Man/Auto, Hold function, Start/Stop pre-programmed cycle
 CONTROL MODES: ON/OFF, P, PI, PID, Autotuning
 ACCURACY: 0.5%±1digit for Tc/RTD; 0.2%±1digit for V/mA
 SAMPLING TIME: selectable (max 15ms)
 SEALING: IP54 Frontal (IP65 with gasket), IP30 Box, IP20 Terminal blocks
 CONFIGURATION: Parameters protected by password, Memory card with battery for serial productions, software for parameters settings on PC.
 CERTIFICATIONS : CE, UL-CSA

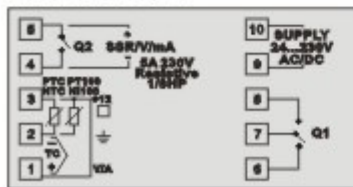


Ordering Code

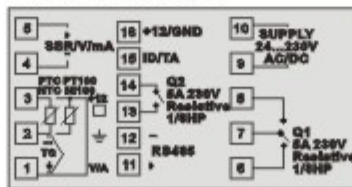
Installation



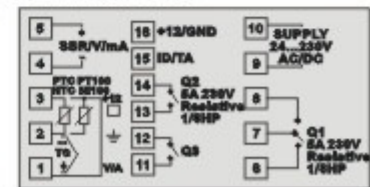
ATR243-20ABC



ATR243-21ABC-T



ATR243-31ABC



MODEL	INPUTS	OUTPUTS	POWER SUPPLY
ATR243-20ABC	Configurabile / Selectable	Relays + SSR	24...230Vac/dc +/- 15% 50/60Hz
ATR243-21ABC-T		Relays + SSR + RS485	
ATR243-31ABC		Relays + SSR	