



## ▶▶ **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

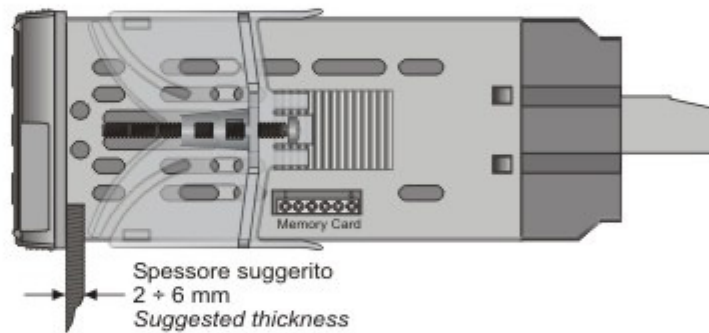
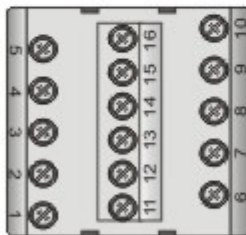
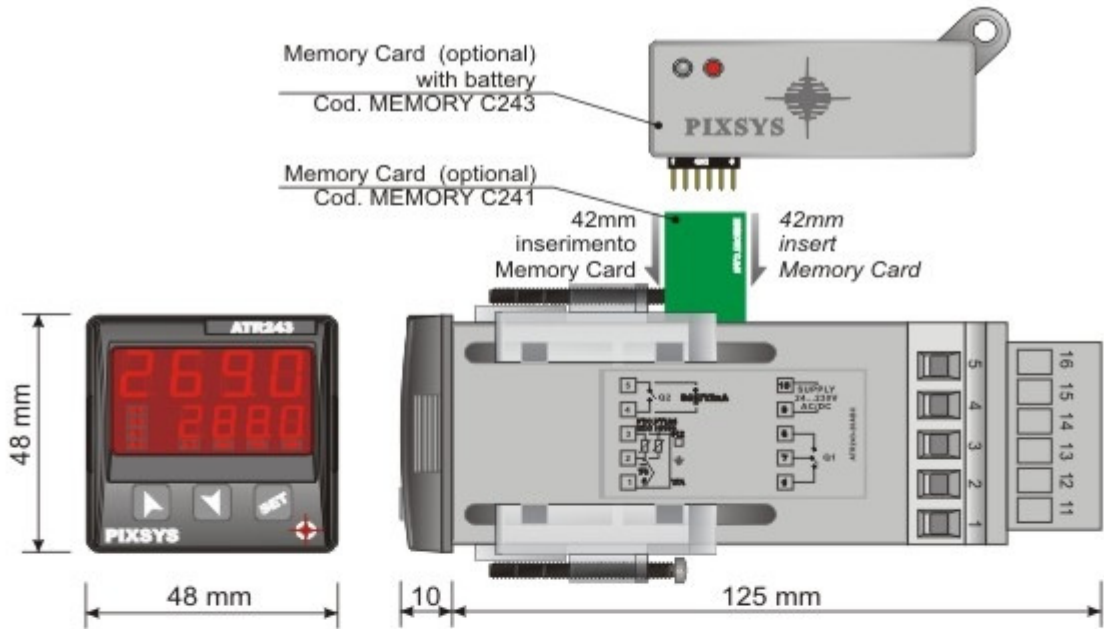
### ▶▶ **Technical data**

SIZE: 48x48(frontal)x122,5mm(dephth)  
 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

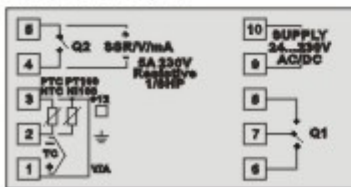


Ordering Code

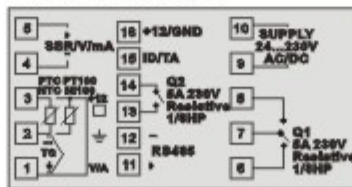
Installation



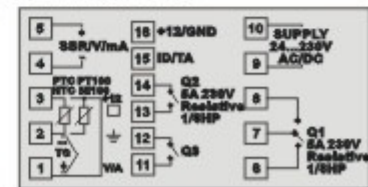
**ATR243-20ABC**



**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	