

Temperature Controller | Process Controller | 0-10V



HMI & PLC Products

Digital Process Displays

Process Controllers

Signal Conditioners

Timer & Counters

Sensor



ATR243 Multifunction Temperature Controller Process Controller

Applications

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 relay + 1 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 SSR

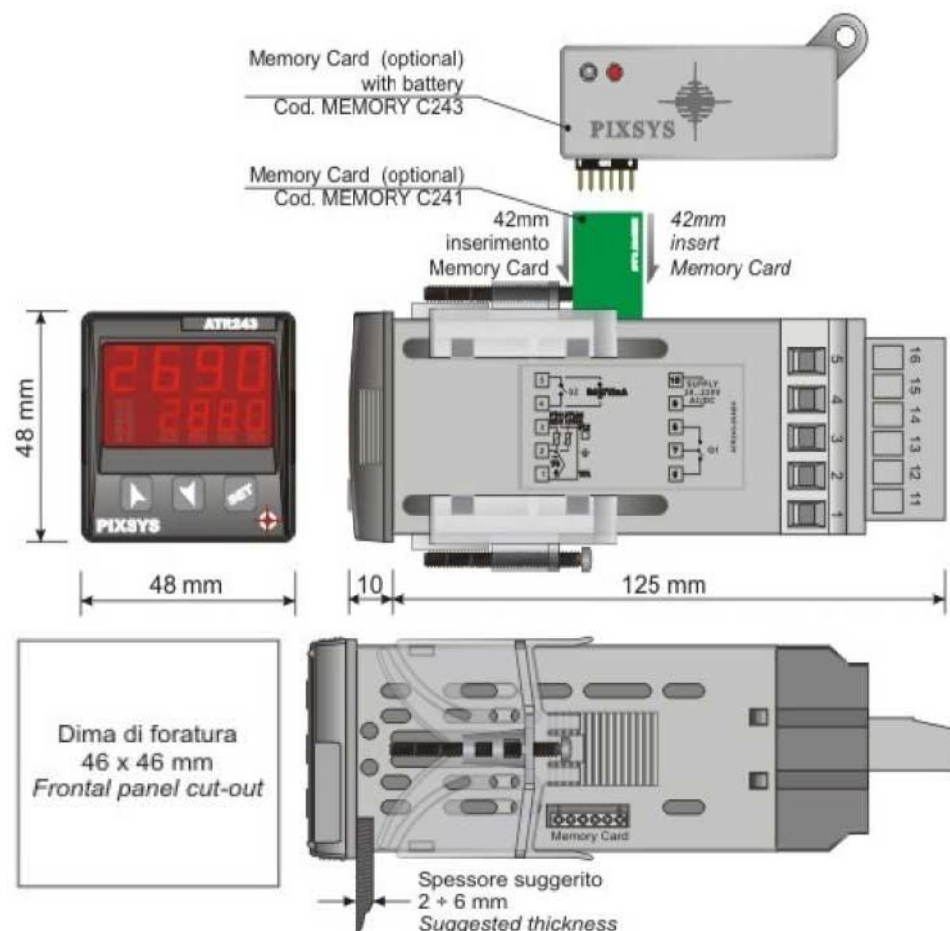
Technical data

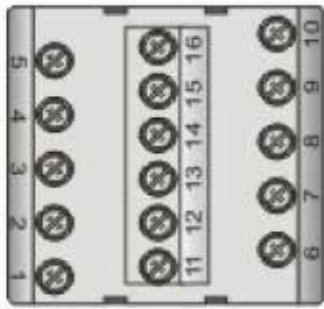
SIZE: 48x48(frontal)x122,5mm(dephth)
 SUPPLY: 24...230 Vac / Vdc +/- 15% 50/60Hz
 CONSUMPTION: 3W
 DISPLAY: dual 4 digits, 8 red LEDs, decimal point
 OPERATING CONDITIONS: 0-45°C, 35..95rH%
 INPUTS: 1 configurable TC K, J, S, R, PT100 (2ranges), NI100, PT1000, PT500, PTC1K, NTC10K 0...10V, 0/4...20mA, 0...40mV Potentiometer 6KI / 150KI, TA 50mA.
 OUTPUTS
 ATR243-20ABC : 2 relays 5A resistive OR 1 logic SSR 12V-30mA / 4..20mA / 0...10V for retransmission (4000 points accuracy)
 ATR243-21ABC-T : 2 relays 5A resistive + 1 logic SSR 12V-30mA / 4..20mA / 0...10V 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 controller")

sensors calibration (including load cells), a programmable retransmission (4000 points accuracy) + Input cycle of 3 steps
 . Optional features are the serial for Loop Break Alarm communication
 RS485-ModbusRTU and load selection
 monitoring function (Loop Man/Auto, Hold function, Start/Stop pre-Break Alarm) with amperometric programmed transformer TA.
 Sealing IP65 with frontal gasket.
 Optional Memory Card to copy all Autotuning 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

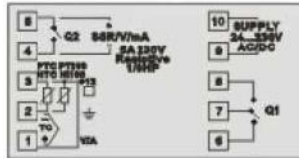
12V-30mA / 4..20mA / 0...10Volt for control or TA 50ma
 DIGITAL INPUT: Tuning Start, Setpoint change,
 Man/Auto, Hold function, Start/Stop pre-cycle
 CONTROL MODES: ON/OFF, P, PI, PID, Autotuning
 ACCURACY: 0.5%±1digit for Tc/RTD; 0.2% ±1digit for V/mA
 SAMPLING TIME: selectable (max 15ms)
 SEALING: IP54 Frontal (IP65 with gasket), IP30 Box,
 CONFIGURATION: Parameters protected by password,
 Memory card with battery for serial productions, software for parameters settings on PC.
 CERTIFICATIONS : CE, UL-CSA

Installation





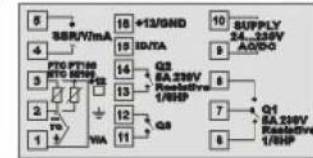
ATR243-20ABC



ATR243-21ABC-T



ATR243-31ABC



MODEL	INPUT	OUTPUT	POWER SUPPLY
-20ABC	Configurable/ Selectable	Relays + SSR	24...230vac/dc +/-15%50/60 Hz
-21ABC-T		Relays + SSR+ RS 485	
-31ABC		Relays + SSR	

Pixsys srl

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