



## » **ATR401 Multisetpoint controller/ double input**

### » **Ordering code**

Plastic Extrusion  
 Injection and extrusion moulding  
 Food industry  
 Packaging and printing machinery  
 Single/multi-loop applications and/or cascade control  
 Woodworking machinery  
 Industrial kilns  
 Painting cabins  
 Footwear and leatherwear machinery



### » **Description**

#### **Double Universal Input**

All models are provided with two inputs, configurable for temperature sensors and linear signals, to manage a double control loop ( 1 PID/Tune and 1 ON/OFF) or a single loop relating the two process to a mathematical operation (addition, difference, mean). It is possible to configure humidity+temperature sensors into a single controller and show both process variables on dual frontal display.

Additional input allows to set remote set-point for cascade control, or by an external potentiometer. TA input for amperometric transformer and Loop-Break-Alarm mode can be overlapped to input 2.

#### **Selectable command and alarm outputs**

Starting from the basic model with 2 relay outputs + SSR command up to 3 and 4 relays and the most complete version that includes 2 relays + SSR, analogue output Volt/mA and RS485+Modbus RTU/Slave. Wide configuration options for alarm logic, selectable as Absolute/Band/Deviation with and without any retaining or delay at starting.

#### **Extended supply range and simplified configuration mode**

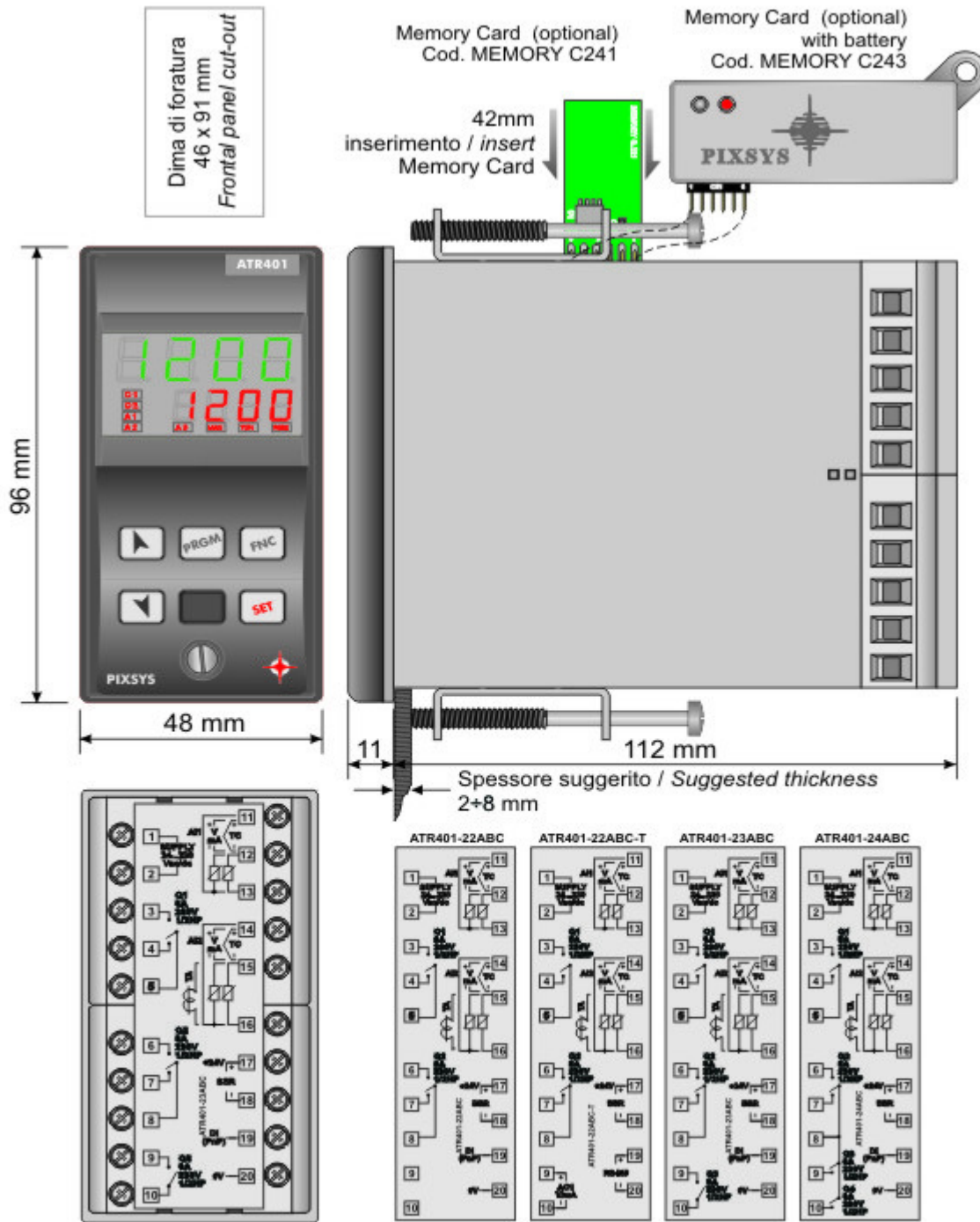
### » **Technical data**

SIZE: 48x96(frontal)x135mm  
 SEALING:IP54 Frontal, IP30 Box, IP20 Terminal blocks  
 POWER SUPPLY: 24 Vac /115...230 Vac/Vdc (selection by internal jumper)  
 POWER CONSUMPTION: 4W  
 DISPLAY: dual, 4+4 digits + signal leds  
 OPERATING CONDITIONS: 0-45°C, 35..95rH%  
 INPUTS: 2 selectable for TC K, J, S, R, PT100,PT1000 NI100, 0/4..20mA, 0..10V, Pot 6/160Kohm, TA  
 DIGITAL INPUT: 1 (Multisetpoint, Hold, Run selection)  
 OUTPUTS:  
 ATR401-22ABC: 2 relays 8A-resistive + SSR 12V-50mA  
 ATR401-23ABC: 3 relays 8A-resistive + SSR 12V-50mA  
 ATR401-24ABC: 4 relays 8A-resistive  
 ATR401-22ABC-T: 2 relays 8A-resistive + SSR 12V-50mA + 4...20mA/0...10V + RS485  
 CONTROL MODE: I-ON/OFF, II-PID-Autotuning  
 SERIAL communication RS485, MODBUS-RTU/SLAVE  
 CONFIGURATION: Parameters protected by password and Memory card for serial production, Labsoftview software, Easy-Up mode.

Controller is supplied with tensions from 24 to 230Vac/Vdc, and generates a power supply of 24Vdc/30mA that can be used for two-wires linear sensors. Programming tools are available either on PC (Labsoftview) or by memory-card (with and without battery). Integrated Easy-up mode allows a simplified inputs and outputs configuration by entering preselected passwords.

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» **Installation**



MODEL	INPUTS	OUTPUTS	POWER SUPPLY
ATR401-22ABC	Configurabile / Selectable	2 Relays + SSR	24/115 ...230 Vac +/-10% 50/60 Hz with jumper
ATR401-22ABC-T		2 Relays + SSR +V/I - RS485	
ATR401-23ABC		3 Relays + SSR	
ATR401-24ABC		4 Relays + SSR	

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