

ATR121

Controller with Dual Setpoint



- Food industry
- Ovens/furnaces
- Refrigeration
- Sterilizers
- Environmental chambers
- Safety units
- Injection moulding
- Driers

GENERAL SPECIFICATIONS

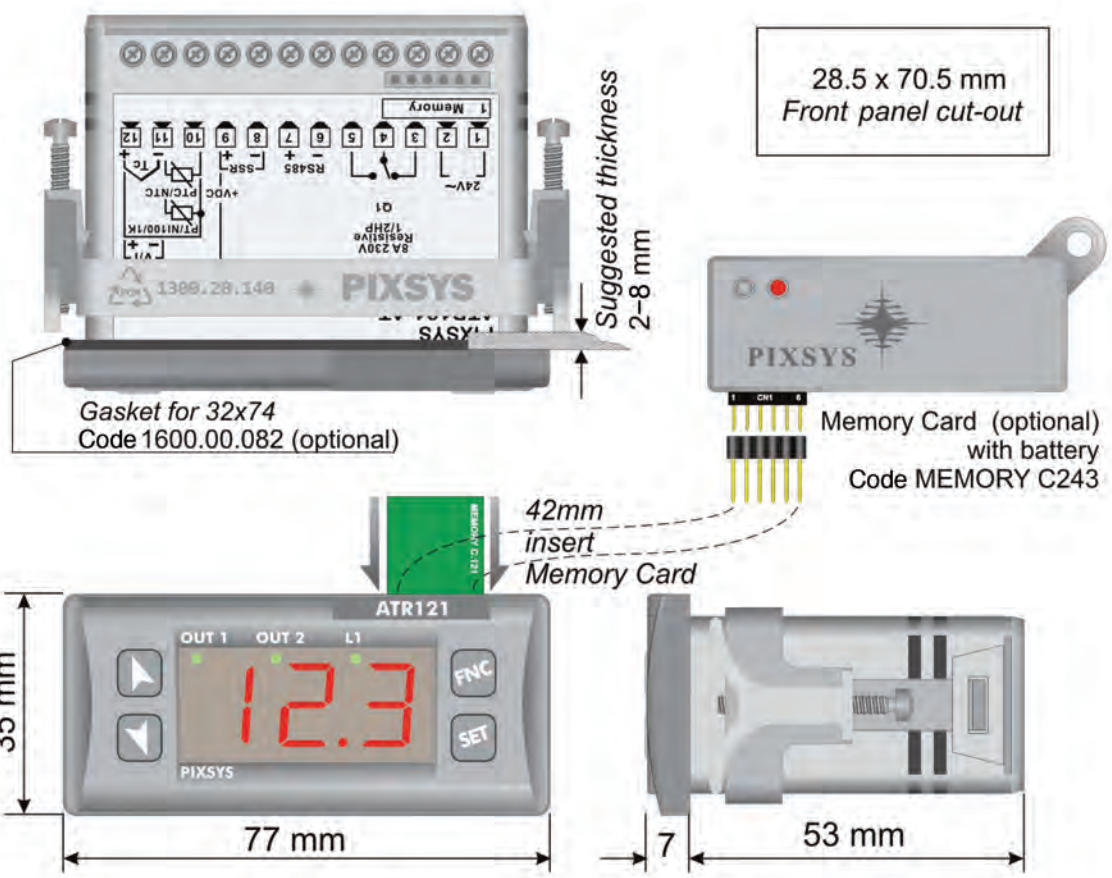
Dimensions	32H x 74W x 58D mm
Supply Voltage	230VAC
Power consumption	2W
Display	3-digit red LED plus decimal point; green status LEDs
Operating Ambient	0-40°C, 35-95%RH
Inputs	1 configurable for J, K, R or S thermocouples; Pt100; Ni100; Pt500; Pt1000; PTC; NTC; 0/4 to 20mA; 0 to 10VDC; potentiometers $\leq 6k\Omega$ or $\leq 150k\Omega$
Outputs	Control relay 8A; Alarm relay 5A; SSR Control/Alarm; Open/Close logic (time-proportioned)
Control Action	ON/OFF; PID Autotuning; Heating/Cooling PID
Accuracy	0.5% \pm 1digit for TC/RTD; 0.2% \pm 1digit for mA/V
Sampling Time	66ms (selectable software filter on input and display)
Sealing	IP54 front panel (IP65 with gasket), IP30 housing, IP20 terminal blocks
Configuration	Parameters protected by password

The ATR121 is a dual-setpoint controller with a 3-digit red LED display. The input is configurable for thermocouples type J, K, S & R; Pt100; PTC1000; Ni100; NTC-10k (typically used in the refrigeration industry); Pt500/Pt1000 (widely used in air-conditioning); 0 to 1V; 0 to 10V; 0 to 20mA and 4 to 20mA. Potentiometers with a full scale value of 6k Ω or 150k Ω may also be used and there is a "latch on" function for quick calibration and setting of minimum, maximum and zero via the front keys.

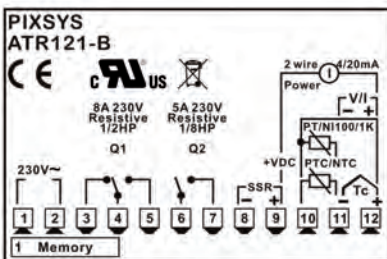
Two set-points are available, one for control and one for the alarm function. They can be configured to activate two relay outputs or an SSR output. The main relay for the control output is rated at 8A. The alarm relay is rated at 5A (alarm modes: threshold, band, deviation). Open/Close logic for motorised valves is also available.

Software features include ON/OFF control, PID + Autotuning and Heating-Cooling PID with a neutral zone. A single output (1 relay + SSR) version is also available.

Front of panel sealing to IP65 can be achieved using a gasket (optional). There is also an optional Memory Card to copy all of the configuration parameters from one controller to another without powering them up.



Model :



MODEL	INPUTS	OUTPUTS	POWER SUPPLY
ATR121-B	Configurable / Selectable	2 Relays + SSR	230 Vac +/-10% 50/60 Hz

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 Specifications subject to change without notice