

ATR244

PID Controller with NFC Configuration



- Compact indicating PID controller
- Super-bright LED display
- Configurable via NFC with Android app
- Universal input
- Relay and SSR outputs
- Optional Modbus communications
- Analogue outputs for control or retransmission
- Universal supply voltage
- Optional dual input

ATR244 is a multifunction PID controller with dual bright LED displays and optional dual input.

It is fully configurable via the built-in controls, Pixsys USB memory card, or via NFC with the MyPixsys app on Android. There is no need to connect power to the ATR244 when configuring it via NFC.

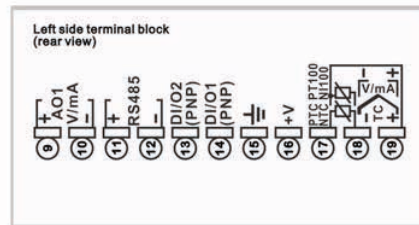
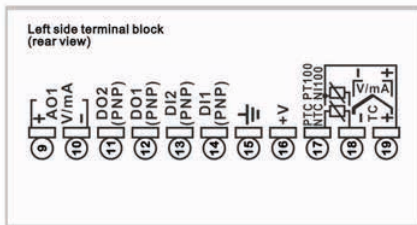
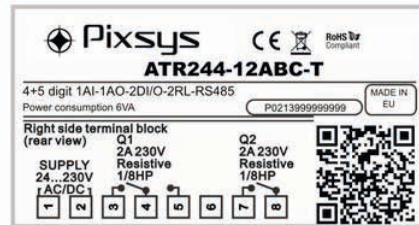
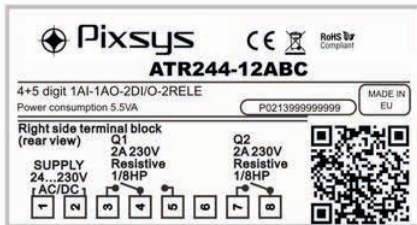
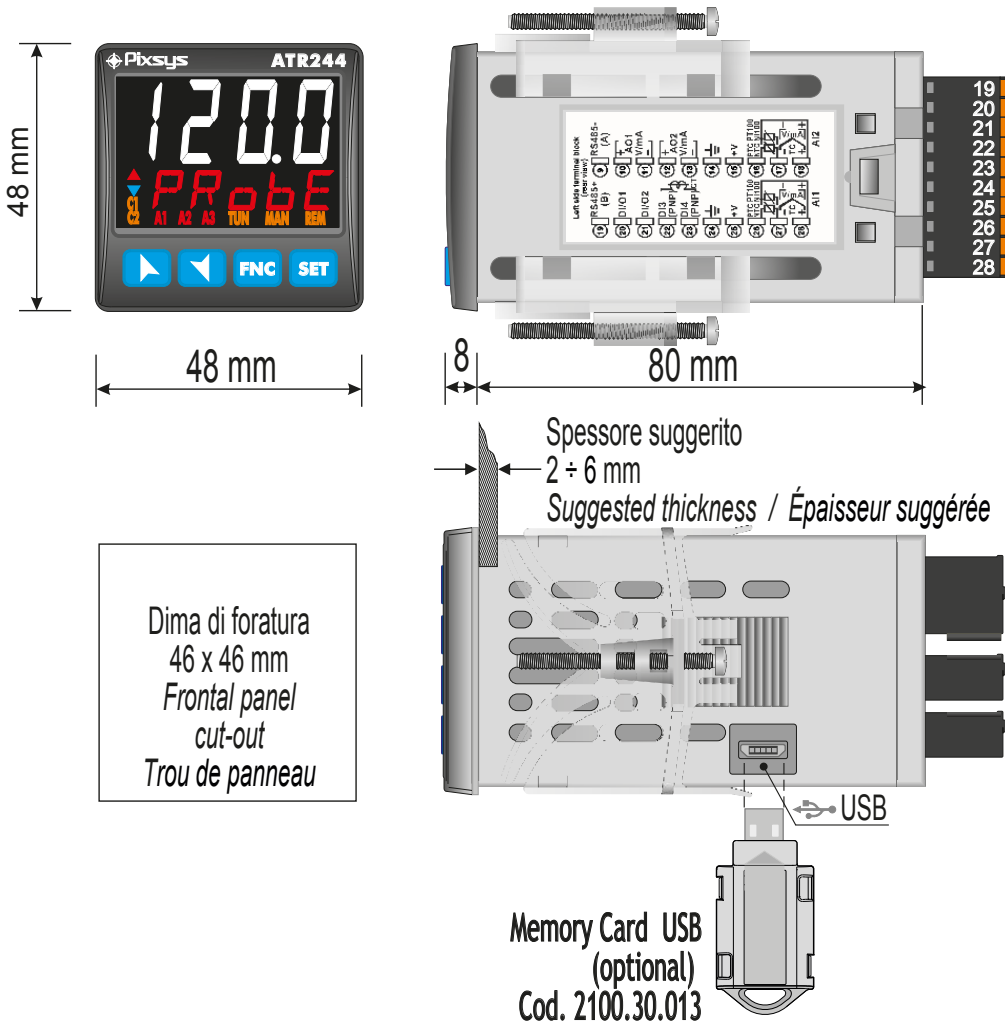
All models have a wide AC or DC supply voltage range, and a universal configurable input for all common signal types. Optional RS485 Modbus RTU communications allow remote monitoring.

Models with dual input allow two separate heating/cooling PID loops in the same device, and mathematical operations between two process values.

Outputs can be selected as control, alarm with multiple modes, or analogue retransmission.

GENERAL SPECIFICATIONS	
Dimensions	48H x 48W x 105D mm
Supply Voltage	24 to 230VAC/DC +/- 15% 50/60Hz , galvanic isolation 2.5 kV
Power Consumption	8W
Display	2 x LED displays: 4-digit white and 4-digit red
Operating Conditions	0-45°C, 35-95%RH
Inputs	1 or 2 configurable analogue inputs selectable as: Thermocouple type K, S, R, J, T, N, B (with automatic cold junction compensation -25 to 85°C, ±0.2% of full scale ±1 digit, 16 bit resolution) Pt100, Pt500, Pt1000, Ni100, PTC1K, NTC10K (β 3435K) Linear analogue signals 0 to 10 V (50000 points), 0/4 to 20 mA (40000 points), 0 to 60 mV (25000 points) Potentiometer 1 to 150 kΩ (50000 points) Sampling time (analogue inputs) Programmable from 2.1 ms (frequency up to 470 Hz)
	2 or 4 digital inputs Configurable for setpoint change, hold, run, tuning launch, start / stop, lock configuration
	1 current transformer (CT) input: 50 mA, 800 μs - 4096 points
Outputs	2 or 3 relays: 250 V AC, 5 A, resistive change
	2 SSR outputs: 12 / 24 V DC, 30 mA max
	1 or 2 analogue outputs: Selectable 4 to 20 mA (40000 points ± 0.2% full scale) or 0 to 10 V DC (40000 points ± 0.2% F.S.) for command or retransmission PV / SPV
	Serial communications (-T models): RS485 Modbus RTU Slave (4800 to 115200 baud)
Control Modes	ON/OFF with hysteresis, P, PI, PID, PD time proportional, manual or auto tuning
Alarm Modes	Absolute / Threshold, Band, High / Low deviation. Alarm with optional Manual reset. Loop Break Alarm
Sealing	IP54 front panel (IP65 with gasket), IP20 (housing and terminal blocks)
Configuration	Password-protected parameters, optional memory card for repeat configurations, PC software, NFC configuration via MyPixsys app for Android smartphones

DIMENSIONS



MODEL NUMBERS

All models have supply voltage 24 to 230 V AC/DC

ATR244-12ABC 1 analogue input + 2 relays 5 A + 2 SSR output + 2 digital input + 1 analogue output V / mA

ATR244-12ABC-T 1 analogue input + 2 relays 5 A + 2 (SSR output or digital input) + 1 analogue output V / mA + RS485 communications

For dual input models please contact Calex.