

ATR144

PID controller 32 x 74mm

Programmable via NFC, Control and alarm functions, analogue/digital input, multi-voltage power supply, serial communication



Process controller **ATR144** is latest release of Pixsys controllers size 32x74mm, integrating recent Blue line standards that have been introduced with ATR244. It stands out for bright display, ensuring optimal visibility in industrial environments and making available more information for the operator as well as a scrolling Help function.

ATR144 is programmable by NFC with dedicated **App MyPixsys for Android devices** (same already in use for Pixsys latest product lines), not requiring wirings and power supply and allowing quick set-up/updates on site.

Multi-voltage power supply 24 to 230V AC/DC with galvanic isolation does not require any hardware selection. Optional serial communication via RS485 with Modbus RTU/Slave protocol.

Main features

Box	32 x 74 (front) x 53 mm
Power supply	24...230 V AC / DC $\pm 15\%$ 50/60 Hz - galvanic isolation 2,5KV
Consumption	5 VA
Display	4 digits 0,38" white + 5 digits 0,28" red
Environmental conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	box: PC UL94V2 self-extinguishing. Front: PC UL94V2
Weight	approx. 120 g
Sealing	Front panel: IP65 (with gasket). Enclosure and terminal block: IP20
Quick set-up options	Memory Card, LABSOFTVIEW software, EASY-UP codes
APP / NFC	Programming via APP (NFC) for Android devices

Inputs

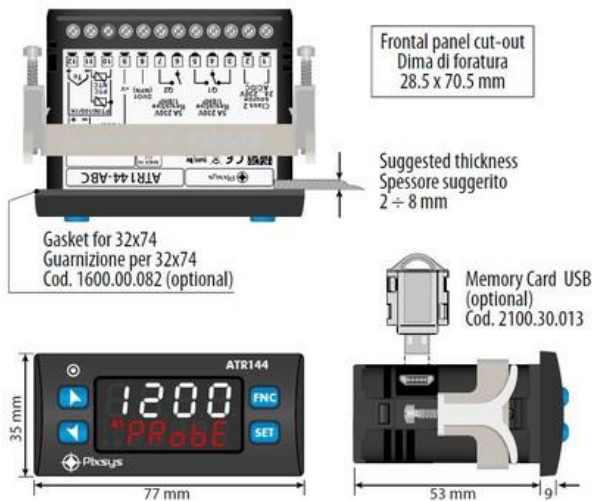
1 Analog	Resolution 16bit, programmable for thermocouples K, S, R, J, T, N, B (automatic compensation of cold junction) -25..85°C, $\pm 0,2\%$ F.S. ± 1 digit F.S.), Thermoresistances PT100, PT500, PT1000, Ni100, PTC1K, NTC10K (β 3435K), process signals 0..10 V (50000 points), 0/4..20mA (40000 points), 0..60 mV (25000 points), potentiometer 1..150 K Ω (50000 points)
Sampling time 1/2 Digital	Programmable until 2,1ms (frequency up to 470 Hz) Setpoint change, Hold, Run, Tuning, Start / Stop, configuration lock

Outputs

1/2 Relays	5 A - 250 V AC resistive
1 SSR	12 V DC - 25 mA max
Serial communication	RS485 Modbus RTU - Slave (4800..115200 baud) Code "-T"

Software feature

Control algorithms	ON - OFF with hysteresis, P., P.I., P.I.D., P.D. time proportional
Tuning	Manual or automatic
Data protection	Lock of control / alarm setpoint / Access to parameters by password
Alarm modes	Absolute / Threshold, Band, High / Low deviation. Alarm with optional Manual reset. Loop Break Alarm
Auto / Manual function	Output percentage command also with automatic change in case of sensor failure
Double P.I.D.	Heating / Cooling P.I.D.
Soft-Start	Rising gradient programmable as Degree / hour or fixed output %
Open / Close logic	Motorized valves



Ordering codes

ATR144-ABC

1 analogue input + 2 relays 5 A + 1 D.I/O -
Supply 24..230 V AC/DC

ATR144-ABC-T

1 analogue input + 1 relay 5 A + 1 D.I/O + RS485 -
Supply 24..230 V AC/DC