

По вопросам продаж и поддержки обращайтесь:

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	Самара (846)206-03-16	

Единый адрес: psx@nt-rt.ru Веб-сайт: www.pixsys.nt-rt.ru

Контроллеры ATR227 PIXSYS. Техническое описание

PID Temperature Controller 48x48 mm **ATR227**

Control and alarm functions, Burst-firing and Phase Angle control, multi-voltage power supply



Temperature controller 48x48mm (1/16 DIN), Single process setpoint value, double alarm threshold (example: maximum temperature threshold and minimum temperature threshold).

Input is programmable for different types of temperature sensor RTD/Thermocouple and process, Relay and SSR outputs are available. It features also the extended range power supply 24 to 230V AC/DC with galvanic isolation.

The software functions include SSR Burst-firing and Phase Angle control for inductive loads, resistive loads and infrared lamps (monophase systems).

The digital input allows external activation of various functions, including selection of automatic/manual mode.

User friendly, multimedia support and traceability

For the entire range of Pixsys products we provide technical support for installation, programming and operation via our online forum and via Skype.

The interface of the ATR227 thermoregulator ensures that the product is easy to use and that the user is also supported by auxiliaries for programming such as MEMORY-CARD or the LABSOFTVIEW programming software.

Programming tutorial videos are available on our [youtube channel](#).

As for the entire range of PIXSYS products, thanks to the QR code the traceability of the product is guaranteed for its entire life cycle ; the information and documentation online can be also be accessed by reading the QR CODE that directs your mobile device to the product's technical specifications and verifies its warranty conditions.

Ordering codes

ATR227-11ABC

2 relays + 1 Digital PNP + D.I.

Main features

Box

48x48 (front panel) x 90 mm

Power supply

24..230V AC/DC $\pm 15\%$ 50/60 Hz (galvanical isolation 2500V)

Power consumption

5,5VA

Display

4 digits 0,4" green + 4 digits 0,3" red

Operating conditions

Temperature 0-45 °C, humidity 35..95 RH%

Material

Box: Polycarbonate self-extinguishing. Front panel: ABS UL94V0 self-extinguishing

Weight

Approx. 130 g

Sealing

IP65 (Front Panel) , IP20 (Box and terminal blocks)

Quick set-up options

Memory Card microUSB, software LabSoftView, EASY-UP codes

Inputs

1 Configurable

Res. 16bit, selectable for K, J, S, R, T, E, N, B (automatic compensation of the cold junction 0..50 °C, $\pm 0,2\%$ F.S. ± 1 Digit F.S.), thermoresistance PT100, PT500, PT1000, Ni100, PTC1K, NTC10K (B

3435K), process signals 0/4..20mA (25000 points), 0..10V (22000 points), 0..60mV (16000 points), Potentiometer F.S. 6/150Kohm (50000 ppoints), T.A. (25000 punti)

Sampling time/ Resolution

100 ms (frequency 10 Hz)

1 digital input

1 PNP, PNP, 1/2 setpoint selection , Run, Auto/man regulation, tuning start, exchange Heat / Cool control , reset outputs

Outputs

2 Relays

Relay 2A - 250 V AC resistive charge

1 Digital

PNP 12VDC - 30 mA max synchronized with main power supply (code 12ABC)

Software features

Control algorithms

ON-OFF with hysteresis, P., P.I., P.I.D., P.D. time proportioned

Output control

Phase angle, burst firing and advanced burst firing control

Tuning

Manual o 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

Auto/ Man function

Command output percentage

Soft-Start

Rising gradient expressed as Degrees / Hour

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