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

Контроллеры ATR171 PIXSYS. Техническое описание

Configurable PID controller 72 x 72 mm **ATR171**

Control and alarm functions, timer, digital input, multi-voltage power supply, analogue retransmission options and double programmable input

PID controller 72x72mm, with dual 4-digits display for high visibility in the industrial environment, distinguished by high configurability.

Two inputs can be programmed for a wide range of sensors. The outputs can be set as control, alarm, or analogue retransmission. The serial communication option is RS485 with Modbus RTU/Slave protocol. Power supply range from 24 to 230V AC/DC with galvanic isolation from network and galvanic isolation between inputs and analogue output.

The heating-cooling PID control algorithm can also be used for cascade control through remote setpoint by analogue input.

The digital input allows external activation of various functions, including the Timer for delayed start or timed control.

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 PID controller ATR171 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

ATR171-11ABC

1 Analogue Input + 1 Relay + 1 digital PNP - Supp. 24...230 V AC/DC

ATR171-12ABC

1 Analogue Input + 2 Relays + 1 digital PNP - Supp. 24...230 V AC/DC

ATR171-14ABC

1 Analogue Input + 3 Relays + 1 Relay - Supp. 24...230 V AC/DC

ATR171-23ABC-T

2 Analogue Inputs + 3 Relays +1 digital PNP / 0...10Volt / 4...20mA + RS485 - Supp. 24...230 V AC/DC

Main features

Box

72x72 (front panel) x 99 mm

Power supply

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

Consumption

6 VA

Display

4 digits 0,5" green + 4 digits 0,3" red + 6 signaling leds

Operating conditions

Temperature 0-45 °C, 35..95 RH% (non condensing)

Material

Box: Noryl UL94V1 self-extinguishing; Front panel: Silicon rubber V0

Weight

Approx. 250 g

Sealing

Front panel IP54 (IP 65 with gasket) , Box IP30, Terminal bloks IP20

Quick set-up options

Memory Card with / without battery, software LABSOFTVIEW, EASY-UP codes

Inputs

1 Analogue

Res. 16 bit, selectable for TC type K, S, R, J, (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, (β 3435K), process signals 0..10V(54000 points), 0/4..20mA (40000points), 0..40mV (16000 points), potentiometer 6K Ω , 150 K Ω (50000 points)

1 Analogue

Selection TC, K, J, S, R, PT100,PT500, PT1000, Ni100, PTC1K, NTC10K (B 3435K) - (code -23ABC-T)

Sampling time

4,1 ms (Frequency from 4,12 Hz to 242 Hz)

1 Digital input

PNP, 1/2 setpoint selection, Hold, Run Auto/man regulation, tuning start, pre-programmed cycle start (codes -11/12/14ABC)

Outputs

1...3 Relays

1...3 Relays 8A - 250 Vac resistive charge + 1 Relay 5A - 250 Vac resistive charge (code -14ABC)

1 Digital/Analogue

Selection digital PNP 12 VDC - 30 mA / 0...10Volt / 4...20mA as command or retransmission setpoint-process (code -23ABC-T)

Serial communication

RS485 Modbus RTU - Slave (code -23ABC-T)

Software features

Control algorithms

ON - OFF with hysteresis, P., P.I., P.I.D., P.D. time proportioned. Automatic / Manual regulation

Tuning

Manual / Automatic

Data protection

Lock of command / alarm setpoint - Access to parameters by password

Alarm modes

Absolute / Threshold, band, High / Low deviation. Alarm with optional manual reset and activation delay. Dead band function

Soft-Start

Rising gradient expressed as Degrees / Hour

Double P.I.D.

Heating / Cooling P.I.D.

Programmer function

3 steps pre-programmed cycle with Start / Stop

Timer function

Controller function + decremental Timer

Remote setpoint

Command setpoint corresponding to AI1 4...20 mA / 0...10 V (code -23ABC-T)

Double input mode

AI1 and AI2 input correlation as mean, difference or addition of process (only for temperature sensors TC - RTD on code -23ABC-T)

Setpoint

Up to 4 setpoints

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