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	Самара (846)206-03-16	

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

Контроллеры ATR141 PIXSYS. Техническое описание

This **32x74 controller** with a 4-figure display is **highly configurable**, which means it requires a lower number of product codes. The input can be programmed for **temperature sensors, resistance thermometers and thermocouples**, but also for pressure transmitters, humidity and flow sensors.



The algorithm for hot-cold PID control is optimised both for **temperature control** and for **process control** with quick transitory, pressure control and flow control.

The single 4-figure display is optimised for process displays with normalised signals, displays of speed/RPM on inverter, displays of temperature over 1000°C.

The controller's outputs can be selected as command/multiple alarm modes/event. The serial communication option is in RS485 with Modbus/Slave protocol.

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 ATR141** 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

ATR141-AD

1 Analogue Input + 2 Relays 8 A + 1 SSR 12Vdc / Supp. 12...24Vac/Vdc

ATR141-B

1 Analogue Input + 2 Relays 8 A + 1 SSR 12VDC / Supp. 230VAC

Main features

Box

32x74 (front panel) x 53 mm

Power supply

12...24 V AC/ DC or 24Vac/115V AC/ 230VAC $\pm 15\%$ 50/60 Hz- (galvanical isolation 2500V, not for AD-ADT)

Consumption

2,6 VA(code AD,ADT) 4,4 VA(code B), 5,7 VA (code C), 2,4 VA (code AV, ADT)

Display

4 digits, 0,4" red + 3 signaling leds

Operating conditions

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

Material

Box: Polycarbonate; front panel: ABS UL94V0 self-extinguishing

Weight

Approx. 100 g

Sealing

Front panel IP54, Box IP30, Terminal blocks IP20

Quick set-up options

Memory Card with/without battery, software LABSOFTVIEW

Inputs

1 analog

Res. 16 bit, selectable for TC type K, S, R, J, (automatic compensation of the cold junction o..50 °C, $\pm 0,2\%$ F.S. ± 1 Digit F.S.), thermoresistance PT100, PT500, PT1000, Ni100, PTC1K. NTC10K, (β 3435K), process signals 0..10V(40000 points), 0/4..20mA (30000points), potentiometer 6K Ω , 150 K Ω (40000 points)

Sampling frequency

66ms (frequency 15 Hz)

Outputs

2 Relays

1 Relay 10A/8A - 250 VAC resistive charge + 1 Relay 5A - 250 VAC resistive charge

1 Digital

8 VDC - 20 mA (codes A/B/C) - 12..35 VDC - 30 mA (code AD)

1 Auxiliary

8 VDC - 20 mA (codes A/B/C) - 12..35 VDC - 30 mA (code AD) for sensor supply

Serial communication

RS485 Modbus RTU - Slave (Code ADT)

Software features

Control algorithms

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

Tuning

manual or automatic

Operating modes

Visualizer, Single setpoint, Double setpoint (selection by parameter)

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.

Double P.I.D.

Heating / Cooling P.I.D.

Open / Close logic

Open / Close logic for motorized valves

Setpoint

2 setpoints

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