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	Самара (846)206-03-16	

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Контроллеры DRR245 PIXSYS. Техническое описание

DIN rail PID controller – Signal converter **DRR245**

Programmable input, isolated analogue output, multi-voltage power supply, current transformer input, digital input, serial communication.



The PID controller DRR245 distinguishes itself from the range of rail-mounted controllers due to its flexibility and configurability that are summed up in a single order code.

The input can be programmed for temperature sensors, resistance thermometers and thermocouples, pressure transmitters, humidity and flow sensors.

The controller's outputs can be selected as command/multiple alarm modes/analogue retransmission. Serial communication is in RS485 with Modbus RTU/Slave protocol. Useful extended range power supply from 24 to 230V AC/DC with galvanic isolation from the network.

In addition to its function as a PID hot-cold controller, the DRR245 controller also serves as a signal convertor thanks to its galvanically isolated analogue output, which can be used in process retransmission/setpoint modes.

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 DRR245 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.

PID tutorial videos on our youtube channel help the user programming the device.

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

DRR245-21ABC-T

1 Analogue input + 2 Relays + 1 Digital PNP / V / mA + RS485 + TA, Supp. 24...230 V AC/DC

Main features

Box

DIN43880, DIN EN50022 rail mounted

Power supply

24...230VAC / DC $\pm 15\%$ 50/60 Hz (galvanic insulation 2500V)

Consumption

5,5 VA

Display

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

Operating conditions

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

Material

Box: Polycarbonate V0; Front panel: Silicon V0

Weight

Approx. 195 g

Sealing

Front panel: IP65, Box and Terminal blocks: IP20

Quick set-up options

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

Wiring

With terminal extension

Inputs

1 Analog

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)

Sampling time

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

1 current transformer

T.A. 50 mA (sampling time 100 ms)

1 Digital

PNP, 1/4 setpoint selection, Hold, Run Auto/man regulation, tuning start, pre-programmed cycle start

Outputs

2 Relays

Relays 5 A - 250 VAC resistive charge

1 Digital

PNP 12 V DC - 30 mA max

1 Analog

Selection 4 - 20 mA or 0 - 10 VDC for command or retransmission PV/SPV

1 Auxiliary

12 VDC - 30 mA for external sensor supply

Serial communication

RS485 Modbus RTU - Slave

Software features

Control algorithms

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

Tuning

Manual or automatic

Data protection

Lock Command / alarm setpoint

Alarm mode

Absolute / Threshold, band, High / Low deviation. Loop Break Alarm function

Auto/Man function

Output percentage command also with automatic change in case of sensor failure

Double P.I.D.

Heating / Cooling P.I.D.

Programmer function

Start/Stop pre-programmed cycle with 2/3 steps

Soft-Start

Rising gradient expressed as Degrees / Hour

Setpoint

up to 3 Setpoints

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