DIN rail PID controller DRR244

PID controller for DIN rail, 4 modules
Universal input, isolated analog output, RS485 Modbus



KEY FEATURES

- One reference, all functions
- Universal input and isolated analog output
- Modbus communication and NFC programming
- Advanced control functions

Description

The DRR244 from Pixsys brings the functions of a complete front panel controller in a 4-module DIN rail enclosure. It mounts directly into the cabinet, next to the circuit breakers and static relays, while retaining a dual display for on-site adjustment and diagnostics.

One reference, all functions

The DRR244-13ABC-T combines all the options in a single control code: universal analog input, current transformer input, two digital inputs, three relays, two SSR outputs, an analog output, and a RS485 port. Stock management is simplified.

Universal input and isolated analog output

The 16-bit input is programmed for thermocouples, thermoresistors, and process signals. The isolated analog output 4...20 mA or 0...10 V is used for control or relaying.

Modbus communication and NFC programming

The RS485 port isolated in Modbus RTU slave mode facilitates integration with an automation system or supervision. Configuration is done via NFC with the MyPixsys application, via micro USB or via a memory card.

Advanced control functions

Dual hot/cold PID, soft-start, open/closed logic for motorized valves, loop break alarm, and load current monitoring via the current transformer.

Typical applications

- Control cabinets for machines and production lines
- Multizone control via Modbus controlled by an automatic system
- Monitoring the current of the heating resistors
- Replacement of the DRR245, whose successor is the DRR244

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Technical specifications

General characteristics

Dimensions	71 x 90 x 64 mm, 4 modules DIN43880
Assembly	Rail DIN EN50022
Nutrition	24…230 VAC/DC ±10 %, 50/60 Hz (galvanic isolation 2.5 kV)
Consumption	9 W/VA
Display	4 white digits 0.5 + 5 red digits 0.3
Materials	Polycarbonate V0 casing, silicone V0 rubber front panel
Weight	Approx. 210 g
Protection index	IP20 enclosure and connectors
Terms of use	0 to 45 °C, 35 to 95 % RH
Certifications	CE

Entrées

Analog input	1 input, resolution 16 bits
Thermocouples	K, S, R, J, T, N, B (cold welding compensation -25 to 85 °C)
Thermostatic resistances	PT100, PT500, PT1000, Ni100, PTC1K, NTC10K
Process signals	0…10 V (50,000 points), 0/4…20 mA (40,000 points), 0…60 mV (25,000 points)
Potentiometer	1…150 kΩ (50,000 points)
Precision	±0.2% full scale ±1 digit
Current transformer entry	1 input 50 mA
Digital entries	2 PNP
Sampling time	Programmable up to 2.1 ms (470 Hz)

Outings and communication

Order code	DRR244-13ABC-T
Relais	2 x 5 A at 250 VAC + 1 x 2 A at 250 VAC (resistive load)
SSR outputs	2 outputs 12/24 VDC, 30 mA max.
Analog output	4…20 mA or 0…10 VDC isolated (40,000 points, ±0.2%)
Auxiliary output	12/24 VDC, 30 mA max. for sensor power supply
Communication	Isolated RS485, 1200 to 115 200 baud, Modbus RTU slave, micro USB

Software functions

Regulatory algorithms	ON/OFF with hysteresis, P, PI, PID, PD time-proportional
Adjustment	Manual or automatic (autotuning)
Alarm modes	Absolute/threshold, band, high/low gap, manual reset and delay optional, loop break alarm
Double PID	Hot/cold
Soft-start	Gradient in degrees/hour or fixed output percentage
Open/closed logic	For motorized valves
Configuration	NFC (app MyPixsys), MyPixsysLab software, Memory Card, EASY-UP codes
Data protection	Locking of the settings, access to the parameters via password

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