



DRR245

Multi-setpoint PID Controller

Signal converter

DIN rail-mounted Controller, single control loop. Distinctive feature is the high configurability available in a single ordering code.

Beside operation as multi-setpoint PID controller, the unit can be ideally used as signal converter thanks to universal analogue input (selectable by parameter for up to 18 different signals) and the analogue output which is galvanically isolated and programmable for rescalable retransmission of process/setpoint value.

RS485-ModbusRTU, Loop Break Alarm by current transformer.

User-friendly interface for the operator, programming tools available for quick set-up (MEMORY-CARD, programming and monitoring software LABSOFTVIEW).

Ordering codes

DRR245-21ABC-T	1 Analogue input + 2 Relays 5 A + 1Ssr/V/mA + RS485 + TA
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Main features

Box	DIN43880, DIN EN50022 rail mounted
Power supply	24...230Vac/dc $\pm 15\%$ 50/60 Hz (galvanic insulation)

Consumption	3 W
Display	4 digits 0,4" green + 4 digits 0,3" red
Operating conditions	Temperature 0-45 °C, humidity 35..95 RU%
Material	Box: Polycarbonate V0; Front panel: Silicon V0
Weight	Approx. 195 g
Sealing	IP65 (Front panel) , IP20 (Box and Terminal blocks)
Quick set-up options	Memory Card with / without battery, software LABSOFTVIEW, EASY-UP codes
Wiring	With terminal extension

Inputs

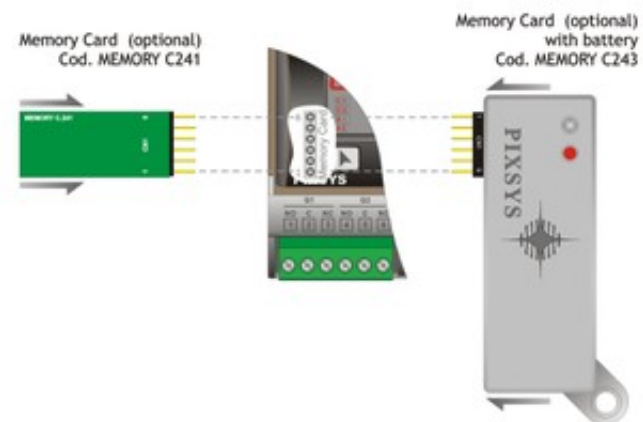
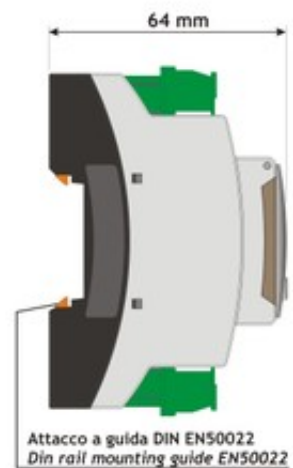
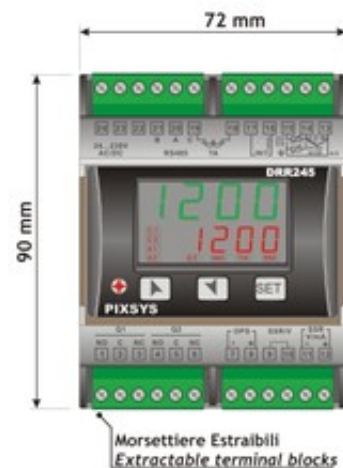
1 configurable	Selection TC, K, J, S, R, PT100,PT500, PT1000, Ni100, PTC1K, NTC10K (B 3435K), 0/4..20 mA, 0..10 V,0...40mV, Potentiometer 1...6/160 Kohm, T.A (1024 points)
Sampling time	Programmable up to 4,1 ms (Frequency up to 242 Hz)
1 T.A. input	Selection T.A. 50 mA - 100 msec - 1024 points
1 Digital input	1/2...4 setpoints selection , Hold, Run, Tuning launch, Start/stop cycle

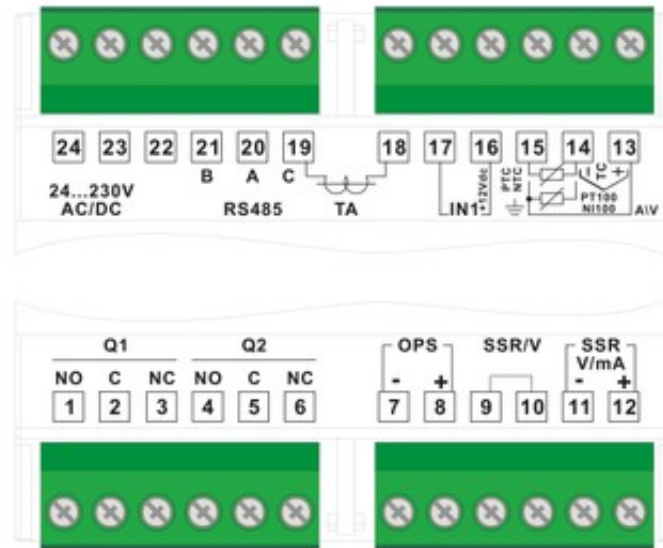
Outputs

2 Relays	Relays 5 A - 250 Vac resistive charge
1 SSR	12 Vdc - 30 mA max
1 Analogue	Selection 4 - 20 mA or 0 - 10 Vdc for command or retransmission PV/SPV

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





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 1300 768 887