

DRR460

Overview

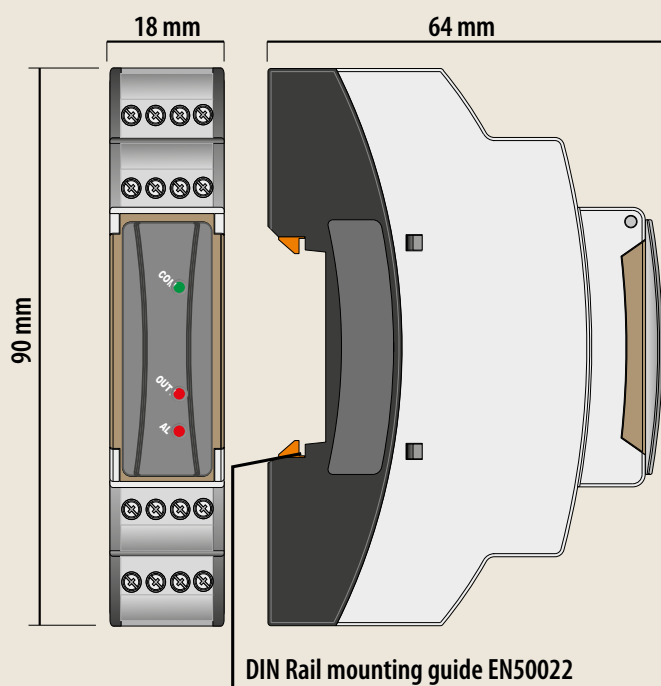


DIN Rail multiple setpoints controller

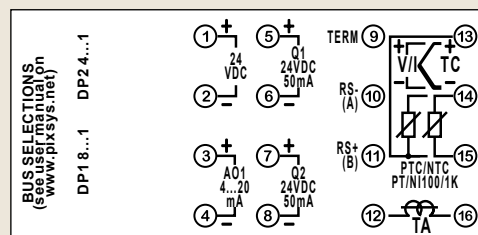
Integrated P.I.D. algorithms control

Autotuning function

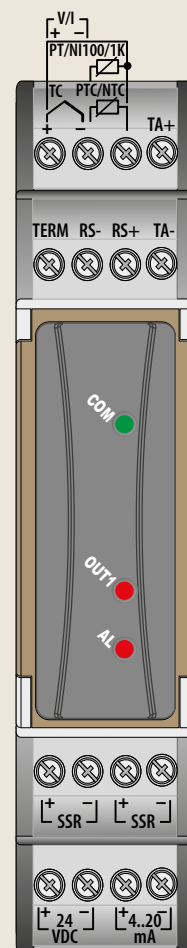
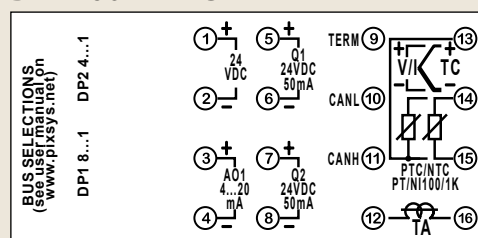
Modbus RTU or CANopen communication protocols



DRR460-12A-T128



DRR460-12A-CAN



Main features

Box	DIN43880, 18 x 90 x 64 mm
Power supply	24 DC $\pm 15\%$ - galvanical isolation 4000V
Power consumption	2 W
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Box: Noryl UL94V1 self-extinguishing, front panel: PC ABS UL94V0 self-extinguishing
Weight	Approx. 30 g
Sealing	IP65 (front panel), IP20 (box and terminal bloks)
Quick set-up options	Memory Card with / without battery, software LABSOFTVIEW, or EASY-UP codes

Inputs

1 Configurable	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.), thermoresistances PT100, PT500, PT1000, Ni100, PTC1K, NTC10K (β 3435K), process signals 0..10 V (54000 points), 0/4..20mA (40000 points), 0..40 mV (16000 points), potentiometer 6 K Ω , 150 K Ω (50000 points), T.A (1024 points)
Sampling time	Programmable up to 4,1 ms (frequency up to 242 Hz)
1 Current Transformer (T.A.) input	Selection C.T. 50 mA - 20 ms - 4096 points

Outputs

2 SSR	12 VDC - 50 mA max
1 analogue	4..20 mA (6000 points $\pm 0,2\%$ F.S.) for command or retransmission PV/SPV
Serial communication	RS485 Modbus RTU - Slave (4800..115200) - CANopen

Software features

Control algorithms	ON - OFF with hysteresis, P., P.I., P.I.D., P.D. time proportioned
Tuning	Manual or automatic
Alarm modes	Absolute / Threshold, Band, High / Low deviation. Alarm with optional manual reset. Loop Break
Auto / Manual function	Alarm function
Double P.I.D.	Output percentage command also with automatic change in case of sensor failure
Soft-Start	Heating / Cooling P.I.D.
Open / Close logic	Rising gradient expressed as Degrees / Hour
	Open / Close logic for motorized valves

Ordering codes

DRR460-12A-T128	1 analogue input + 2 SSR OUT + 1 OUT mA + RS485 + C.T.
DRR460-12A-CAN	1 analogue input + 2 SSR OUT + 1 OUT mA + CAN + C.T.