# DRR460
## Overview



## DIN Rail multiple setpoints controller

Integrated P.I.D. algorithms control
Autotuning function
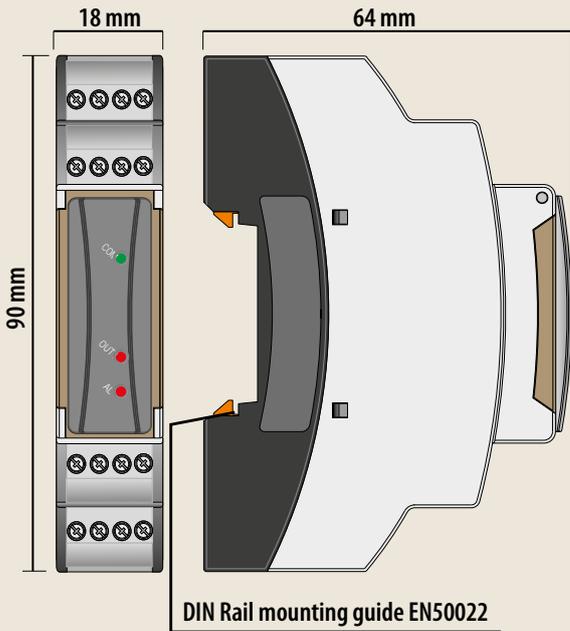Modbus RTU or CANopen communication protocols

18 mm

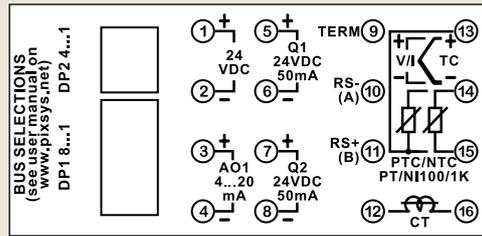64 mm

90 mm

COM

OUT

AL

DIN Rail mounting guide EN50022

-T128

-CAN

### DRR460-12A-T128
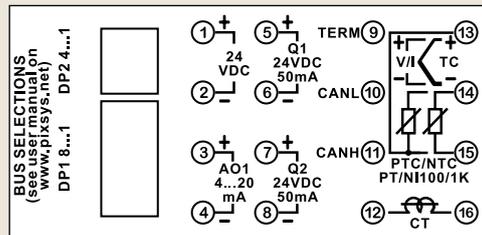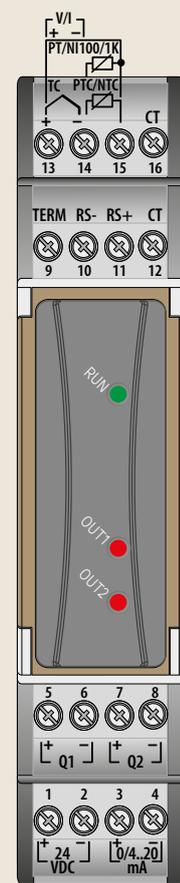


### DRR460-12A-CAN
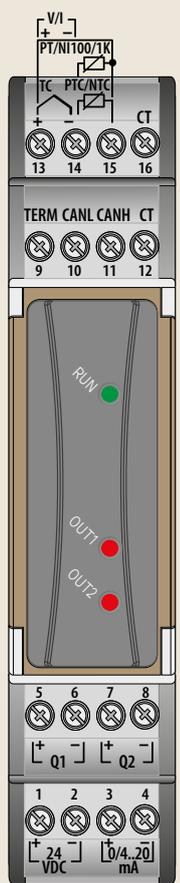


# Main features

| Box | DIN43880, 18 x 90 x 64 mm |
|---|---|
| Power supply | 24 VDC ±15% - galvanical isolation 1,5KV |
| Power consumption | Max 3 W |
| Operating conditions | Temperature 0-45 °C, humidity 35..95 RH% |
| Material | Box: PC UL94V0 self-extinguishing, front panel: PC UL94V0 self-extinguishing |
| Weight | Approx. 30 g |
| Sealing | IP20 (box and terminal bloks) |
| Quick set-up options | Memory Card, software LABSOFTVIEW |

## Inputs

| 1 Configurable | Res. 16 bit, selectable for TC type K, S, R, J, T, E, N, B (automatic compensation of the cold junction 0..50°C, ±0,2% F.S. ±1 digit F.S.), thermoresistances PT100, PT500, PT1000, Ni100, PTC1K, NTC10K (β 3435K), process signals 0..10 V (23000 points), 0/4..20mA (26000 points), 0..60 mV (24000 points), potentiometer 1..150 KΩ (50000 points) |
|---|---|
| Sampling time | 100 ms (10 Hz) |
| 1 Current Transformer (T.A.) input | C.T. 50 mAac, 50/60Hz - 100 μs - 4096 points |

## Outputs

| 2 SSR | 24 VDC - 50 mA max |
|---|---|
| 1 analogue | 0/4..20 mA (34000 points ± 0,2% F.S.) for command or retransmission PV/SPV |
| Serial communication | RS485 Modbus RTU - Slave (4800..115200 bit/s) - CANopen slave (50K..1M Bit/s) |

## 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. Heater Break Alarm function |
| Auto / Manual function | Output percentage command also with automatic change in case of sensor failure |
| Double P.I.D. | Heating / Cooling P.I.D. |
| Soft-Start | Rising gradient expressed as Degrees / Hour or fixed output percentage |
| Open / Close logic | Open / Close logic for motorized valves |

## Ordering codes

| DRR460-12A-T128 | 1 analogue input + 2 out 24 Vdc / 50 mA + 1 OUT mA + RS485 + C.T. |
|---|---|
| DRR460-12A-CAN | 1 analogue input + 2 out 24 Vdc / 50 mA + 1 OUT mA + CAN + C.T. |