



DPC^{ex} Digital Temperature Controller

Features

- Intrinsically safe Pt100 (Ni 100) connection
- 2 independent relay outputs 16 A and 2 A
- Sensor monitoring (Sensor failure and short-circuit detection)
- 7 segment display
- LED status display
- Settings can be changed in hazardous areas

Description

DPC^{ex} is a temperature controller which can be used in explosion hazard zones. In this case it is built into an additional EEx electrical distributor housing. It is particularly suitable for controlling electrical pipe heaters. The programmed controller data will be retained even after a power cut. Each of the two relay outputs can be programmed independently from each other to the desired switch-on or switch-off temperature (target, excess or insufficient temperature).

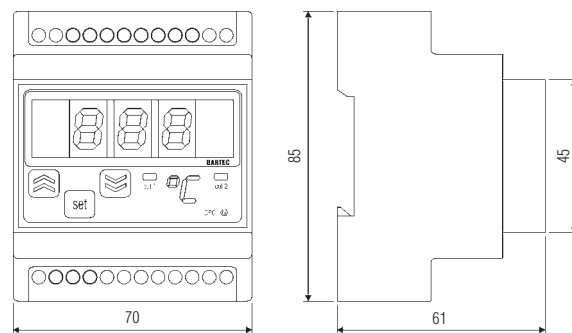
Function

Changes of resistivity at the Pt100 sensor are evaluated by the DPC^{ex} and are displayed as temperature values on the LED display. Whenever the set temperature value at the sensor is exceeded or fallen below, the output relay will automatically switch on or off. The switch hysteresis between the switch-on point and the switch-off point can be set. The switch point of one relay can be set independently of the other as an excess or insufficient temperature alarm.

Additional products

- Pt100, +200 °C
3-wire Type 03-9040-0006
- Pt100, +400 °C
3-wire Type 03-8140-0013

Dimensions





➔ Explosion protection

Ex protection type

Ex II 2G EEx e ib m [ib] IIC

Certification

TÜV 00 ATEX 1532 U

➔ Technical data

Structure

snap-on housing for TS 35

Enclosure material

ABS polymer, grey

Protection class

enclosure IP 20

Connection terminals

Wago-Cage clamp 2.5 mm²

Storage temperature

-30 °C up to +70 °C

Ambient temperature

-5 °C up to +40 °C

Weight

0.360 kg

■ Electrical data

Supply voltage

DC 24 V ± 10 %

Electric power consumption

P = 2.5 W

Relay outputs

output 1 250 V/16 A

output 2 250 V/2 A

Measuring input

2-/3-wire Pt100 or Ni 100

Measuring range Pt100

-99 °C up to +600 °C

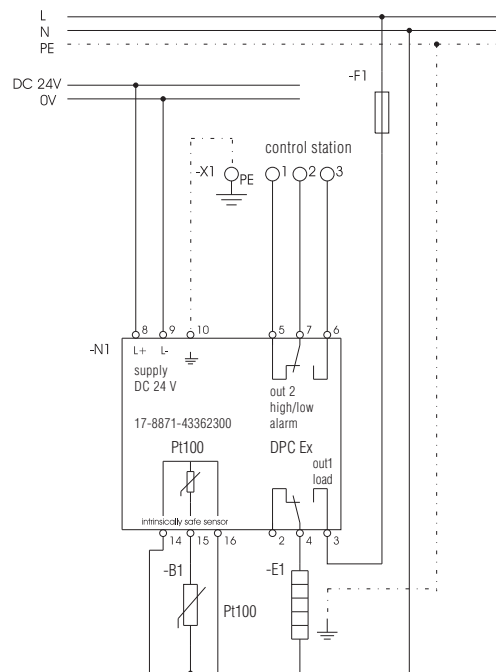
Measuring precision

≤ 0.5 % of the instrument range

Resolution

1 k

Circuit diagram



➔ **Order no.**
17-8871-4336/2300

Technical data subject to change without notice.