



Features

- Complete solution for tubular steam trace heaters-controllers, limiters and power setpoint adjusters all in one unit
- Alteration of adjusting parameters also possible in potentially explosive areas
- Current carrying capacity 25 A
- Fault-free full wave control
- Sensor input, intrinsically safe
- Allows easy output adaptation to heating circuit changes

DEPU – Complete Digital Solution

Description

DEPU serves as complete solution for pipe heating and provides temperature control, limitation and power output control in one device. DEPU is ATEX-certified and approved for use in potentially explosive areas.

Structure

All functional units are integrated in a standard Ex e aluminium enclosure. Connection to mains is established through 6 mm² tension clamp terminals.

Function

The controller is designed as a ON/OFF controller and measures the temperature through RTD sensor inputs.

The limiter works as an independent system and measures the temperature at the hot spot with its own sensor. If the temperature exceeds the limit value the limiter interrupts the heating circuit permanently from mains and a fault alarm signal is given.

The power output controller works in interference free full wave control mode by means of a semiconductor relay.

Two 7-segment displays guarantee good readability of the controller and limiter temperature values through the lid's window.

Additional products

3-wire Pt100

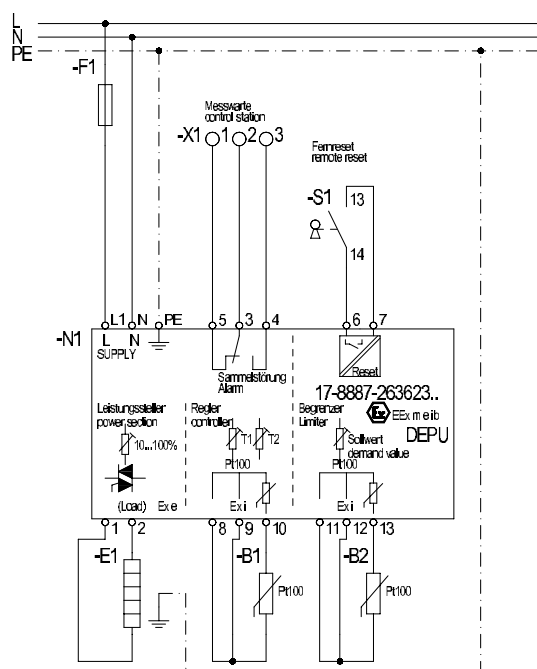
up to 200 °C

up to 400 °C

Order no. 03-9040-0006

Order no. 03-9040-0016

Circuit diagram





➔ Explosion protection

Ex protection type

II 2G EEx m e ib [ib] IIC T4

Certification

TÜV 03 ATEX 2088

➔ Technical data

Enclosure

Standard enclosure of aluminium, grey

Protection class

IP 65

Terminals

Wago cage clamp

Cable entries

Mains supply line	1 x M25 (M32 opt.)
Heating cable/cold end	1 x M20
Fault alarm	1 x M20
Remote reset	1 x M20
Sensor	2 x M16

Storage temperature

-30 °C to +70 °C

Ambient temperature

-20 °C to +40 °C

Weight

6 kg

Guidelines

Directive 94/9/EC
NAMUR NE 21
EN 50020, EN 50019, EN 50028, EN 50014

■ Electrical data

Supply voltage

AC 230 V +10 %/-15 % (50 to 60 Hz)
(special voltage 254 V on request)

Rated current - power setpoint adjuster

max. 25 A

Power consumption

no load: $P = 11 \text{ VA}$
full load: $P_{\text{max}} = 5.7 \text{ kVA}$

Relay outputs

Master fault control-1 changeover contact
250 V/5 A

Measuring input (intrinsically safe)

Pt100 (2 or 3 conductors)

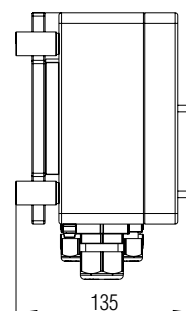
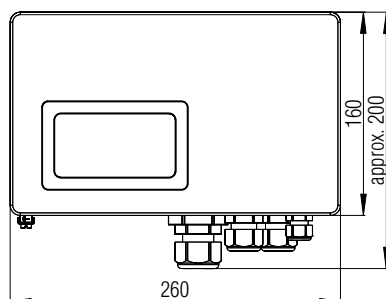
Measuring range Pt100

0 °C to +450 °C

Resolution/measuring accuracy

1 K

Dimensions (mm)



➔ **Order no.**
17-8887-2636/2300

Technical data subject to change without notice.