



DEPU

DEPU Complete Digital Solution



Controllers - Limiters - Power Setpoint Adjusters



DEPU Complete Solution

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

Supplementary products

3 conductors Pt 100

- up to 200 °C Order no. 03-9040-0006
- up to 400 °C Order no. 03-8140-0013

Description

A complete solution for DEPU tubular steam trace heaters is provided by temperature control, limitation and power setpoint adjustment, all in one unit. DEPU is ATEX-certified and approved for use in potentially explosive areas.

Structure

All functional units are integrated in a standard casing of aluminium. The connecting lines up to 6 mm² are contacted with cage tension spring clamps.

Function

The controller is designed as a two point controller and measures the temperature by means of a PT 100.

The limiter works as an independent system and measures the temperature at the hot spot with its own PT 100. If the temperature exceeds the limit value the limiter interrupts the heater permanently and a fault signal is given.

All fault alarms are indicated by a master fault contact. Resetting can be carried out directly on the unit or externally with a key.

The power setpoint adjuster works as a fault-free full wave control by means of a semi-conductor relay.

A 7-segment display guarantees good readability of the temperature values of controller and limiter through the viewing plate.

Explosion protection

Ex protection type

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

Certification

TÜV 03 ATEX 2088

Technical data

Enclosure/Enclosure material

Standard enclosure of aluminium, grey

Protection class

Enclosure 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/norms/certifications

- Ex directive 94/9/EC
- NAMUR recommendation NE 21 EMC
- EN 50020, EN 50019,
- EN 50028, EN 50014

Electrical data

Supply voltage

AC 230 V +10%/-15 % (50 up to 60 Hz)

Rated current - power setpoint adjuster

max. 25 A

Power consumption

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

Relay outputs

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

Measuring input

Pt 100 (2 or 3 conductors)

Measuring range Pt 100

0 °C up to +450 °C

Resolution/measuring accuracy

1 K

Order no. 17-8887-2636/2300

Technical data subject to change without notice!

Dimensions/mounting positions

