Instructions

Edition: 02.2010

Flameproof Enclosure HPH Ex d …

TÜV 09 ATEX 555395 X

1 Range of application

The pressure resistant housing HPH Ex d … has been developed preferably for the visualization of a current signal. The signal current of 4 mA … 20 mA is displayed as 0 % … 100 % value. It can be used in hazardous areas in which equipment of the category 2 (zone 1) are required. The digital display is powered by the signal current and requires no separate power supply.

2 Description

The flameproof enclosure HPH Ex d … is produced in two versions.

HPH Ex d D	flameproof enclosure with digital display
HPH Ex d	flameproof enclosure without digital display

3 Installation requirements

Generally, all local safety and accident prevention regulations must be observed. Particular attention must be paid to the installation requirements of Ex equipment.

Warning: Do not open the enclosure when energized.

3.1 Installation

The approved cable glands or conduit entries for pipes and possibly a safety barrier must be installed in the housing according to the manufacturer. The cover must be tightly screwed to the housing after wiring and fixed with the locking screw M4.

In order to maintain flameproof enclosure the cable entries and the entries for pipes must be approved in accordance to EN 60079-1. For this, two threaded holes are provided. These threads can have different sizes (see 3.2).

It has to be paid attention that the threads are in perfect condition. Repair of the housing must be carried out by FAFNIR only. The device is maintenance-free.

A threaded hole, preferably M24 × 1.5 can be used to mount an approved flameproof enclosure safety barrier. The safety barrier is then used to power an intrinsically safe (Ex i) sensor.

3.2 Electrical connection

For cable entries of pipes the following threads according to EN 60079-1 are provided:

M16 × 1.5; M20 × 1.5; M24 × 1.5; M25 × 1.5; G ⅜; ½" NPT; ¾" NPT

3.3 Technical data

Ambient temperature	-40 °C ... +85 °C
Electrical input data:	
U_i with digital display	min. 16 V to max. 29 V
U_i without digital display	min. 12 V to max. 26 V
I_i	4 mA … 20 mA (3,6 mA … 21,5 mA; fault mode)
Marking:	
EC-Type Examination Certificate	TÜV 09 ATEX 555395 X
according to EC-Directive 94/9:	CE 0044 Ex II 2 G Ex d IIC T4

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