

Instructions according to IEC 60079-0

IECEX TUN 08.0008

Transmitter type VAPORIX-Flow

Version: 02.2018

I Range of application

The transmitter is used to measure gas flow as part of an automatic monitoring device to check the function of the vapour recovery systems at filling stations.

II Standards

The device is designed according to the following IEC standards

- IEC 60079-0:2017-12, Edition 7.0 Equipment – General requirements
- IEC 60079-11:2011-06, Edition 6.0 Equipment protection by intrinsic safety "i"
- IEC 60079-26:2014-10, Edition 3.0 Equipment with Equipment Protection Level (EPL) Ga

III Instructions for safety

III.a Use

The transmitter serves as intrinsically safe apparatus and is suitable for use in potentially explosive atmospheres. The transmitter is suitable for gases of groups IIA and IIB with temperature classes T1, T2, T3 and T4.

III.b Assembling and dismantling

Disassembly of the transmitter is not intended. A disassembly would also damage the transmitter and the certificate expiry!

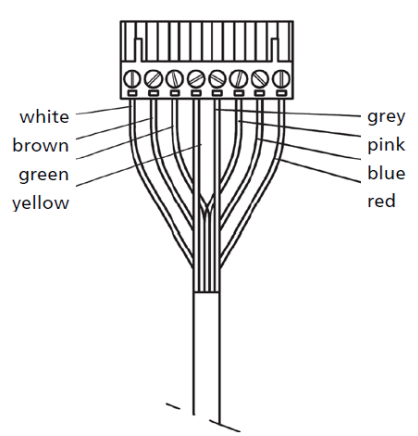
III.c Installation

The wiring may only be done de-energized. Special regulations i. a. IEC 60079-14 or the local installation regulations must be observed.

The pipe threads are to be provided with suitable sealing material and inserted into the pipe system.

When wiring from the transmitter to the evaluation unit (preferably blue cable), the permissible inductance and capacity of the evaluation unit must not be exceeded.

Connector pin assignment:



General remark (see also IEC 60079-14:2013, Clause 6.4.1):

Exposed conductive parts need not be separately connected to the equipotential bonding system if they are firmly secured to and are in conductive contact with structural parts or piping which are connected to the equipotential bonding system.



III.d Adjustment

For the operation of the transmitter, no Ex-relevant adjustments are necessary.

III.e Putting into service

Before putting into service, all devices must be checked for correct connection and installation. The electrical supply, including the connected devices, must be checked.

III.f Maintenance, overhaul and repair

The apparatus is generally maintenance-free. In the case of a defect, this must be returned to the manufacturer FAFNIR or one of its representatives.

It is in conformance with the dielectric strength requirements between the intrinsically safe circuit and the chassis of the transmitter with 500 V_{AC} in accordance with IEC 60079-11, Clause 6.3.13.

IV Equipment marking

- | | | |
|---|---------------------|---------------------------------------|
| 1 | Manufacturer: | FAFNIR GmbH, 22525 Hamburg |
| 2 | Type designation: | VAPORIX-Flow |
| 3 | Certificate number: | IECEX TUN 08.0008 |
| 4 | Ex marking: | Ex ia IIB T4 Ga
Ex ia IIB T4 Ga/Gb |
| 5 | Technical data: | T _a = -40 °C ... +65 °C |

V Technical data

The transmitter must only be connected to the certified measurement evaluation type VAPORIX-Control ... in accordance with the IECEx certificate of conformity IECEx TUN 08.0007X. The electrical input data of the transmitter are adapted to the evaluation unit and are not listed here.

The transmitter may be used in the following ambient temperature range:

$$T_a = -40 \text{ °C} \dots +65 \text{ °C}$$

General remark (see also IEC 60079-0, Clause 1):

Zone 0 is given only under atmospheric conditions:

Temperature range: -20 °C ... +60 °C

Pressure range: 0,8 bar ... 1,1 bar

Oxidant: Air (oxygen content approx. 21 %)

The transmitter achieves a degree of protection of:

Degree of protection: IP68

VI Specific conditions of use

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