

Safety Instructions

Display FHX40

Zone 1 Ex ia IIC T6...T1

IECEX TUN 04.0011



XA400F-A

Safety instructions for electrical apparatus for explosion-hazardous areas according to IEC standards

Display FHX40

english

**Associated
Documentation**

This document is an integral part of the following Operating Instructions:
KA202F/00

The Operating Instructions which are supplied and correspond to the device type apply.

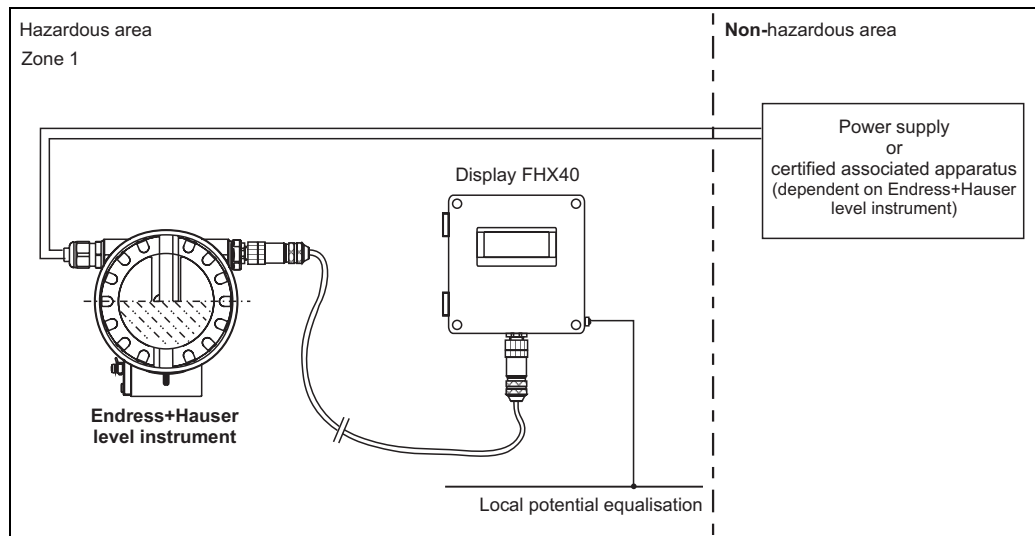
**Supplementary
Documentation**

Explosion-protection brochure:
CP021Z/00

Designation

Explanation of the labelling and type of protection can be found in the explosion protection brochure.

Designation of explosion protection**Zone 1 Ex ia IIC T6...T1**



XA400Fen01



Note!

For connection to Endress+Hauser instruments with intrinsically safe display only.

Output circuit:

$$U_o \leq 5,6 \text{ V}$$

$$I_o \leq 47 \text{ mA}$$

$$P_o \leq 66 \text{ mW}$$

Safety instructions: Installation

- Install the device according to the manufacturer's instructions and any other valid standards and regulations.
- The intrinsically safe input power circuit of the device is isolated from ground potential and has a dielectric strength of at least $500 \text{ V}_{\text{rms}}$ with respect to it.
- The electrical apparatus must be integrated into the local potential equalisation.
- The supplied connection cable of the FHX40 may not be changed. The cable length is limited to 40 m.
- Power circuit with type of protection: intrinsic safety Ex ia IIC; for connection to a certified intrinsically safe circuit only; maximum values:
 - $U_i = 5,6 \text{ V}$
 - $I_i = 47 \text{ mA}$
 - $P_i = 66 \text{ mW}$
 - effective internal capacitance $C_i = C_i + C_{\text{cable}} = 11 \text{ }\mu\text{F}$
 - effective internal inductance $L_i = L_i + L_{\text{cable}} = 30 \text{ }\mu\text{H}$
- The FHX40 can be applied in the temperature range $-40 \text{ }^\circ\text{C} \leq T_a \leq 75 \text{ }^\circ\text{C}$. The relationship between the permitted ambient temperature for the electronics housing, dependent on the range of application, and the temperature classes is shown in the table.

Zone 1 application

Maximum permitted ambient temperature at the housing	Temperature class Display FHX40
+60 °C	T6
+75 °C	T5

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