

Dräger PEX 1000

The Dräger PEX 1000 is a converter module that converts the mV signals of the Dräger Polytron® SE Ex sensing heads into mA signals and sends them to a control unit like the Dräger REGARD® family. Together with the Dräger Polytron® SE Ex, the PEX 1000 fulfils the conditions set down for primary explosion protection.



Benefits

The monitoring team

The Dräger PEX 1000 establishes the link between the Polytron SE Ex sensing heads and a control unit. These sensing heads are installed in a hazardous area, which is then monitored for hydrocarbon concentrations. Their measured data is transmitted as mV signals to the PEX 1000, which is placed outside the hazardous zone. Here, the measured data is converted into standardized mA signals and transferred to the control unit (e.g. Dräger REGARD 2410). If limits are exceeded, the control unit activates suitable countermeasures such as ventilation.

Quickly ready for action

A three-core cable connects the PEX 1000 with the control unit and the Polytron SE Ex. The cable length covers a wide range of up to 500 meters. The PEX 1000 can also easily be integrated or upgraded into existing installations and gas warning systems.

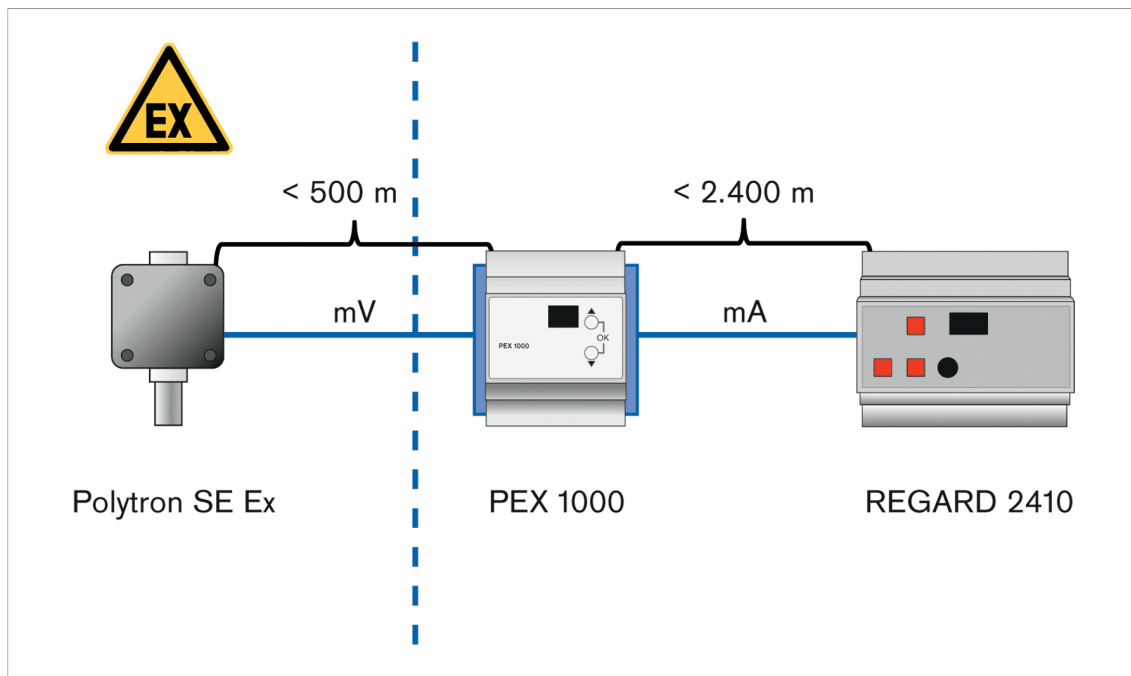
Easy to use

The PEX 1000 is very user-friendly and easy to handle. Maintenance and calibration are adjusted directly on the device with just two buttons and two-digit digital display.

Metrological functionality test

While the secondary explosion protection reduces the risks, the primary explosion protection actively prevents the formation of explosive atmospheres. Together with the Polytron SE Ex and a control unit like the Dräger REGARD 2410, the PEX 1000 fulfils all conditions for primary explosion protection and is tested to EN 60 079-29-1.

The Dräger PEX 1000 in operation



The detector head of the Dräger Polytron® SE Ex is installed in the protective area of the Ex-zone. From there, it sends an mV signal. The Dräger PEX 1000 then transfers this into an mA signal and sends it to the control unit (for example, the Dräger REGARD® 2410).

System Components



D-10088-2018

Catalytic Bead DrägerSensor®

The DrägerSensor® ... DQ detects flammable gases and vapours such as hydrogen. Due to the double-detector compensation method, the catalytic sensor is particularly long-term stable. The wire mesh at the gas inlet serves as a flame barrier. So it ensures explosion protection at the same time short response time.

System Components



D-1923-2022

Dräger Polytron® SE Ex

The Dräger Polytron® SE Ex ... DQ sensing heads are gas detectors for the continuous monitoring of flammable gases and vapours in the ambient air. Measurement is based on the heat of reaction principle where a chemical reaction takes place in a catalytic bead (also known as a pellistor) inside the sensor.



ST-5647-2006

Dräger REGARD® 2400 and REGARD® 2410

Dräger REGARD® 2400 and 2410 are flexible small control units for detection of toxic gases and oxygen as well as combustible gases and vapours. Combined with the Dräger transmitters or sensing heads Dräger REGARD® 2400 or 2410 forms a low-maintenance gas detection system for reliable protection.

Technical Data

Power supply	12 to 30 V d.c. (nominal 24 V d.c.), max. 110 mA at 24 V
Signal output	Normal operation 4 to 20 mA Maintenance 3.4 mA Fault condition < 1.2 mA
Cabling	3-core, shielded, core cross-section 0.75 to 1.5 mm ² , outer diameter 7 to 12 mm
max. cable length (at 24 V, 250 Ohms)	2,400 m at 3 x 1.5 mm ² , 1,600 m at 3 x 1.0 mm ² , 1,200 m at 3 x 0.75 mm ²
Ambient conditions	Temperature -20 to +50 °C / -4 to +122 °F Pressure 700 to 1,300 hPa Humidity 5 to 95 % r. H.
Housing material	ABS
Ingress Protection	IP54
Dimensions (W × H × D)	ca. 70 x 61 x 90 mm
Weight	ca. 200 g
Performance approval	acc. to EN 60079-29-1

Ordering Information

Productname	Order no.
Dräger PEX 1000	83 24 835

Notes

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