

# gasQS<sup>™</sup> static Standard version hydrogen

Screw in, connect, start measuring

The thermal conductivity is precisely determined with the help of a microthermal sensor. For hydrogen in methane applications, it can derive the percentage of both gases. Unlike the market standard, this robust, compact and inexpensive device requires neither readjustment nor reference gases.

The two-wire connection allows easy integration into the control system without further knowledge of bus topology. The simple screw-in connection requires only minimal intervention in the pipe system and does not require an exhaust line.

#### The instrument is pressure compensated and therefore independent of the prevailing process pressure.





Very sensitive





No complex bus integration



No moving parts

Pressure compensated

Measurement range

Output value std.1 Percentage of gas

H2 in CH4

Unit mol% Range 0 - 100 Accuracy<sup>2</sup> ±0.2%

Repeatability<sup>3</sup> ±0.01%

<sup>1</sup> One output value per device, standard conditions 0 °C, 25 °C, 1013.25 mbar absolute, further reference conditions on request

<sup>2</sup> %-values refer to the measured value.

<sup>&</sup>lt;sup>3</sup> Statistical scatter value with 2 sigma of moving average with 8 values



#### **Specifications**

Measuring time: Measuring interval: Response time: Meas. range temp. compensated<sup>5</sup>: Operating/storage temperature<sup>6</sup>: Ex device protection type and certificate number:

0.1 seconds 1 second T90 typically 2 seconds<sup>4</sup> -20 ... +80 °C -25 ... +85 °C Ex II 1G Ex ia IIC T4 Ga IECEx SEV 22.0008X SEV 15 ATEX 0191 X

### Media

Media:dry, neutral gases (10 µm filtering)Load limit supply line:+30 bar gaugeSupply line pressure range:standard:-0.5 ... +9.0 bar gaugeextended:-0.5 ... +15.0 bar gauge (on request)

# Electrical

Connector: Output signal: Supply voltage: Maximum load:

# Mechanical

Gas connection: Dimensions (Diameter x Height) : Weight: Protection class: G 3/8 male thread 51 x 54 mm 0.15 kg IP54

M12-B, male, 5-pole Analog 4 – 20mA

+12.0 ... +28.0 VDC

R ≤ (V<sub>s</sub> – 12 VDC)/0.02 A

## **Accessories (optional)**

EX Package

1x SMART transmitter power supply unit 1x 10 m cable PVC assembled, shielded, RAL 5015 blue

Tee piece

Fitting optimised for fast measurements, G1/4 - G3/8 - G1/4

<sup>5</sup> Medium and ambient temperature

<sup>&</sup>lt;sup>4</sup> Depending on distance between device and gas line