



### HF/P-10

Hydrogen Fluoride Gas Sensor in Prime Housing

#### Measurement

Operation Principle	3-Electrode Electrochemical
Nominal Range	0 - 10 ppm
Maximum Overload	100 ppm
Inboard Filter	-
Output Signal	- 110 ± 40 nA/ppm
Resolution (Electronics dependent)	< 0.1 ppm
T90 Response Time	< 60 s
Typical Baseline Range (pure air, 20°C)	-1 ppm to 1 ppm
Maximum Zero Shift (+20°C to +40°C)	0.2 ppm
Repeatability	< 2 % of signal
Output Linearity	Linear
Gain	-

#### Electrical

Rec. Load Resistor	10 Ohm
Bias (V_Sens-V_Ref)	not recommended
Conformity to RoHS directive	RoHS Compliance

#### Environmental

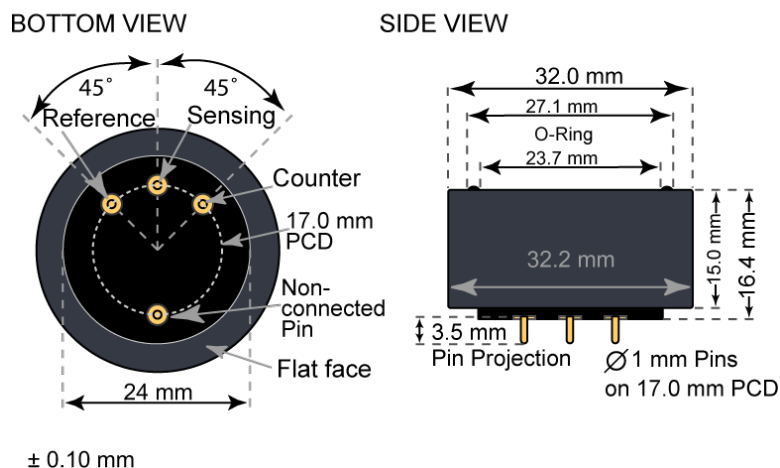
Relative Humidity Range	15 % to 90 % R.H. non-condensing
Temperature Range	-40 °C to 60 °C
Pressure Range	Atmospheric ± 10%
Pressure Coefficient	N.D.
Humidity Effect	None

#### Lifetime

Expected Operation Life	2 years in air
Expected Long Term Output Drift in air	< 2 % signal loss per month
Filter Life	-
Storage Life	6 months in container
Rec. Storage Temperature	5°C - 20°C
Warranty Period	12 months from date of dispatch



### Prime-Size Outline Dimensions



### Mechanical

Weight	12 g
Position Sensitivity	None

### Applications

Safety and Process Control  
Leak Detection

### Cross Sensitivity Data

The table below does not claim to be complete. Interfering gases should not be used for calibration. Please contact Memrapor AG for further support regarding cross sensitivities.

Interfering Gas	Concentration [ppm]	Reading [ppm]
CO	250	0
Isopropanol	60	< 5
H <sub>2</sub>	1000	0
H <sub>2</sub> S	20	-57
HCl	21	4
NH <sub>3</sub>	80	-11
NO <sub>2</sub>	5	12
PH <sub>3</sub>	5	0.3
SiH <sub>4</sub>	20	0
SO <sub>2</sub>	10	> -50 <sup>1)</sup>

<sup>1)</sup> SO<sub>2</sub> exposure should be avoided.