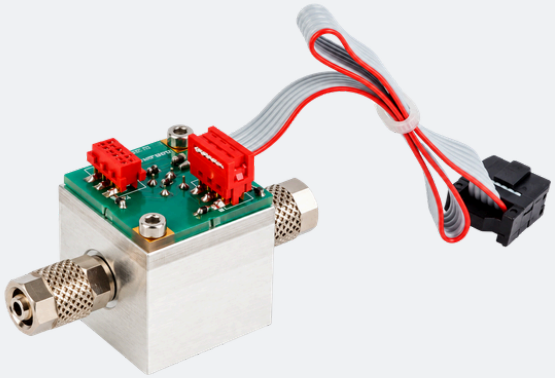
PRODUCT DATA SHEET

MicroFLOW performance HUMI.sens



ACCESSORY

Art. no. 7841.11-1.00

Easy-to-customize NDIR gas sensors.

The MicroFLOW performance HUMI.sens is a humidity sensor with an integrated temperature sensor, designed for accurate and reliable humidity monitoring in industrial gas analysis applications.

With a measurement range of 0 ...100% RH, high measurement accuracy, and low long-term drift, it supports condensation prevention, continuous emissions monitoring (CEM), and gas chiller temperature control. Its chemically resistant construction and fully calibrated, temperature-compensated design enable straightforward replacement and reliable operation

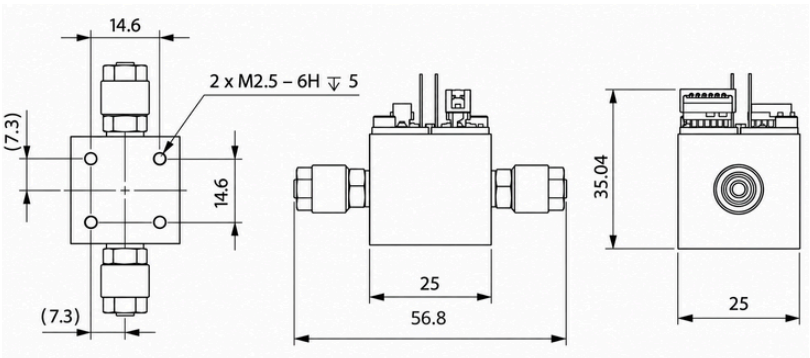
Applications

- Humidity monitoring to prevent condensation
- Humidity measurement in industrial gas analysers
- Exhaust gas monitoring for continuous emissions monitoring (CEM)
- Temperature control in gas chillers

Features and benefits

- Integrated temperature sensor
- Chemically resistant construction
- High measurement accuracy
- Low long-term measurement drift
- Easy replacement with a fully calibrated and temperature-compensated sensor

Mechanical drawing



All measurements in mm

PRODUCT DATA SHEET › Accessories › MicroFLOW performance HUMI.sens | © Micro-Hybrid-Electronic GmbH | 2026-10 | All rights reserved

Technical data

General features

Parameter	Measurement	Unit
Dimensions	35.1 × 25 × 56.6	mm
Weight	60	g
Tube connector	4/6 mm tube	
Measurement range (additional units: g/m³, ppm)	0 ... 100% RH -40 ...125 °C	
Medium contact materials	Glass, metal, FKM, polymer with porous humidity-permeable cover, stainless steel, aluminium	

Measuring response

Parameter	Measurement	Unit
Resolution	0.02% RH	+0.015 °C
Response time (t90)	< 12 s[1]	< 12 s[1]
Repeatability	± 0.2% RH	± 0.1 °C
Accuracy	± 1.8% RH[2]	± 0.2 °C[3]
Hysteresis	< ± 1% RH	-
Linearity error	< ± 1% RH	0.05% RH/°C[3]
Drift	< 0.5% RH/a	< 0.05 °C/a

PRODUCT DATA SHEET › Accessories › MicroFLOW performance HUMI.sens | © Micro-Hybrid-Electronic GmbH | 2026-10 | All rights reserved

Climatic conditions

Parameter	Measurement	Unit
Operating temperature	0 ... 50	°C
Storage temperature	-20 ... 50	°C
Air pressure	600 ... 1200 hPa	(mbar)
Ambient humidity (RH)	0 ... 100% RH (non-condensing)	RH (non-condensing)

RH relative humidity [1] flow = 1l/min, [2] TA= 23°C (0 ... 90% RH), [3] T_a= 0 ... 60°C, [4] please check the climatic conditions of the main module

Disclaimer

All rights reserved. All information in this product information is based on the latest knowledge, results of practical experience and tests carried out. Earlier specifications are hereby invalid. All specifications - technical included - are subject to change without notice. It is the customer's responsibility to ensure that the performance of the product is suitable for customer's specific application. No liability is accepted for indirect damage, in particular for the use or inability to use the product. Any liability we may have is limited to the value of the product itself. This product is patent pending.

PRODUCT DATA SHEET › Accessories › MicroFLOW performance HUMI.sens | © Micro-Hybrid-Electronic GmbH | 2026-10 | All rights reserved