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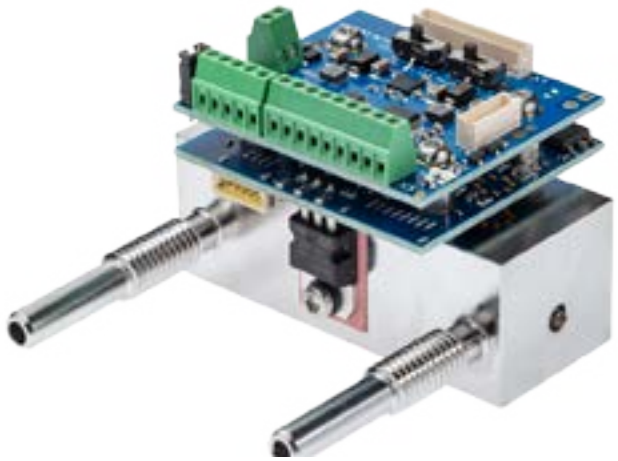
Thermal Conductivity Gas Detector Module: smartGAS TCDM

The **smartGAS TCDM** is a highly precise and stable Thermal Conductivity Detector (TCD). It is designed for the use as an OEM detector.

For indication of the signal analog as well as digital output is provided. For internal calibration, configuration and digital indication of the signal a TTL-level RS232 communication device is required.

In given cases, a cross sensitive gas may be measured separately and the signal of this measurement is fed into **smartGAS TCDM** where an internal routine compensates the cross sensitivity.



Basic parameters	
Measurement Technology	Thermal conductivity
Connection	6mm pipe
Dimensions	75x64x45 (WxHxD in mm)
Pressure-proof to	10 bar absolute
Power supply	21V to 30V DC / 1000mA(max)/ 500mA(typ)
Interface	UART 3.3/5V TTL, RS 232, Analog
Ambient temperature range	-20° C to 50° C
T90 time at 60l/h	< 1sec
Calibration on site	Yes

Options:	
Flow measurement	Yes
Multi Gas Mode	Yes
Protection against corrosion	Yes
Protection against condensate and dust	Yes
Moisture measurement	Yes
Cross-sensitivity compensation	Yes, external signal required

Specifications gas analysis :	
Noise	< 1% of smallest range
Drift at zero point per week	< 2% of smallest range
Repeatability	< 1% of smallest range
Non-linearity	< 1% of range
Measuring error with ambient temperature change per 10° K	< 1% of smallest range
Flow influence between 60l/h and 90l/h per 10l/h	< 1% of smallest range
Fault with measurement gas change (Pabs > 800 hPa) per 10 hPa	< 1% of smallest range