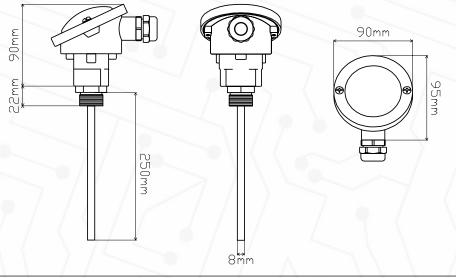
Industrial measurements: TRIB	OELECTRIC PROBES
CE	
GMTRB003D-H-xx	
TRIBOELECTRIC PROBE FOR MEASURING DUST CONCENTRATIONS - TEMPERATURE LESS THAN 220°C	
Resolution 0.1 mg/m <sup>3</sup> 2 alarm thresholds: • 5 mg/m <sup>3</sup> • 10 mg/m <sup>3</sup> Minimum air flow speed: 4 m/s Minimum particle size: 0.3 µm Ambient temperature for electronics: -20°C - +65°C 3 opto-isolated outputs with solid state relays + RS485 serial ou Power: 24Vdc Protection: IP65 Die-cast aluminium enclosure painted RAL 3000 DIN A Measurement stylus in AISI 304 steel - Ø = 8 mm - L = 250 mm [the stylus can be lengthened with extensions] Attachment: <sup>3</sup> / <sub>4</sub> " male gas stub pipe	
GMTRB003D-H-EX Complies with ATEX Directive 2014/34/EU - Category 3D Maximum stylus operating temperature: 220°C	Ex ATEX
<b>GMTRB003D-H-EX-FM</b> Complies with ATEX Directive 2014/34/EU - Category 3D/3G Maximum stylus operating temperature: 220°C FM APPROVED Certified	EX APPROVED
* To calculate the correct stylus measurement (with possible extensions), start from point 'A'.	Ø 8 mm hm L = xxx mm (GMPRLxxx - optional)
Table	

MODEL	RESOLUTION	THRESHOLD 1	THRESHOLD 2	OUTPUT 4-20mA	LOWER END OF SCALE@20mA	SELF-ACQUISITION	RS485
GMTRB003D	0.1 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	NO		YES	YES

# **DIMENSIONS:**





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## Industrial measurements: TRIBOELECTRIC PROBES

## **TECHNICAL SPECIFICATIONS**

Power supply	24Vdc ± 10%			
Maximum absorbed power	1 W			
Resolution	0.1 mg/m <sup>3</sup> (See table)			
Range setting	Automatic/manual			
Dust particle size	> 0.3 μm			
Type of measurable products	Dust particles in gaseous fluid			
Flow speed	> 4 m/s			
Measurement principle	Charge displacement			
Alarm threshold 3 (Fault)	Automatically activated by the test function			
Alarm outputs	2 opto-isolated outputs with solid state relay,			
	protected with resettable fuses			
Maximum output current	100mA			
Maximum voltage applicable to the outputs	48V			
Output functions	Set normally closed or normally open			
	Common to negative or positive			
Probe operating temperature	< 220°C			
Probe operating pressure	< 2 bar			
Electrode material	AISI 304 stainless steel			
Stylus diameter	Standard 8 mm			
Die-cast	Aluminium enclosure			
Humidity	< 95% non-condensing.			
Ambient temperature for electronics	-20°C - +65°C			
Dimensions	DIN A			
Measurable elements	All non-aggressive gases			
Electrical connection	One 3-pole terminal block + one 6-pole terminal block			
Mechanical connection	3/4" G			
Protection rating	IP 65			
Display	4 LED			
Output 4-20 mA	No			
Serial output	RS485 with two wires			
Certifications	CE/ATEX ZONE 22 D			

ACCESSORIES:



## EXTENSION FOR TRIBOELECTRIC PROBE STYLUS: GMPRL001-I - Length: 100mm Ø = 8 mm

GMPRLO02-I - Length: 200mm Ø = 8 mm GMPRLO04-I - Length: 400mm Ø = 8 mm



**GMTRB-F3-34** Joint to attach the triboelectric probe



GMTRB-FX1-34 MOUNTING KIT for all versions of triboelectric probes. Suitable for installation in zones classified ATEX: Category 2D/2G



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The Technical and Commercial offices are at full disposal for any other inquiry.