

GMTRB006D-EX-ISxx



**HIGH RESOLUTION TRIBOELECTRIC PROBE 4-20mA
FOR MEASURING DUST CONCENTRATIONS
WITH STYLUS COMPLETELY COATED IN PTFE
FOR DAMP AND/OR AGGRESSIVE ENVIRONMENTS**

Resolution 0.01 mg/m³

2 alarm thresholds: • 1 mg/m³
• 2 mg/m³

Minimum air flow speed: 4 m/s

Minimum particle size: 0.3 µm

Maximum operating temperature: 220°C

3 opto-isolated outputs with solid state relays + RS485 serial output +

Analog output 4-20mA: 4mA @ 0mg/m³, 20mA @ 2mg/m³

Power: 24Vdc

Protection: IP65

Die-cast aluminium enclosure painted RAL 3000

Measurement stylus in AISI 304 steel completely coated in PTFE - Ø = 21 mm

Maximum length of isolated stylus L = 1950 mm as measured from point 'A' *

Attachment: 3/4" male gas stub pipe



Complies with **ATEX Directive 2014/34/EU - Category 3D/3G**

specify the pipe diameter when ordering



GMTRB006D-EX-IS01 - For pipes up to Ø=250 mm

GMTRB006D-EX-IS02 - For pipes from Ø=280 mm to Ø=600 mm

GMTRB006D-EX-IS03 - For pipes from Ø=650 mm to Ø=900 mm

GMTRB006D-EX-IS04 - For pipes from Ø=950 mm to Ø=2000 mm

Complies with **ATEX Directive 2014/34/EU - Category 3D/3G**

FM APPROVED Certified

specify the pipe diameter when ordering



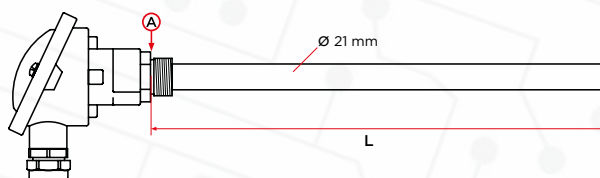
GMTRB006D-EX-IS01-FM - For pipes up to Ø=250 mm

GMTRB006D-EX-IS02-FM - For pipes from Ø=280 mm to Ø=600 mm

GMTRB006D-EX-IS03-FM - For pipes from Ø=650 mm to Ø=900 mm

GMTRB006D-EX-IS04-FM - For pipes from Ø=950 mm to Ø=2000 mm

* To calculate the correct isolated stylus length, start from point 'A'.



Table

MODEL	RESOLUTION	THRESHOLD 1	THRESHOLD 2	OUTPUT 4-20mA	LOWER END OF SCALE@20mA	SELF-ACQUISITION	RS485
GMTRB006D	0.01 mg/m ³	1 mg/m ³	2 mg/m ³	YES	2/10 mg/m ³	NO	YES

TECHNICAL SPECIFICATIONS

Power supply	24Vdc \pm 10%
Maximum absorbed power	1 W
Resolution	0.01 mg/m ³ (See table)
Range setting	Automatic/manual
Dust particle size	> 0.3 μ m
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 21 mm
Die-cast	Aluminium enclosure
Humidity	100% condensing, only on the stylus.
Ambient temperature for electronics	-20°C - +65°C
Dimensions	DIN A
Measurable elements	All non-aggressive and or moist 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	Opto-isolated Max load 500 Ω
Serial output	RS485 with two wires
Certifications	CE/ATEX ZONE 22 D

DIMENSIONS:

