

- Approved under ATEX (Ex) II 2G Ex d IIC T3
- Universal use
- Adjustment of the mounting position by individual setup
- Easy flange mounting
- · Easy to maintain
- Large filter surface
- Low dead volume
- Options Backflush system Calibration gas switch



Digital form at: www.cgs-company.de/ downloads/MDZ_E_D_MGS-020_Ex.pdf The gas sample probe MGS-020_Ex is used to continuously extract gas in processes that involve dust concentration, high temperatures and/or a high gas moisture content. The probe can be installed in explosion zone 2. Maximum operating temperature is 180°C.

The mechanical construction of gas sample probe MGS-020_Ex is designed for a user-friendly and easy to maintain installation. The insulated stainless steel housing contains a heated stainless steel filter body. This filter body is equipped with a largesurface ceramic surface filter. The filter material is made up of two layers. A fine-porous ceramic membrane layer is applied to the coarse-porous ceramic base material. The filter membrane offers a filtration grade of 0.5 micron, which ensures good filter efficiency. The sample gas enters the filter element from the outside in. The two-layer design of the filter element prevents the particles from depositing inside the filter. Instead, they deposit on the surface of the filter element and can be flushed back into the process using the optional backflush system. The design allows for the filter cartridge to be replaced even when the device is heated. To replace the filter element, open the upper housing door to pull the element up and out. Alternatively, a suitable calibration gas can be injected into the pre-filter. 3/2-way ball valves are used for the backflush system and the calibration gas injection. These are also available in a pneumatic version upon request.

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Technical specifications

• Electrical Connector Housing

Material Stainless steel 1.4571 **Dimensions** 100 x 150 x 60 mm

Temperature regulation **External** 230 V / 50 Hz Power supply

Cable gland M20

max. 2.5 mm² Clamp connection

PT100 Temperature sensor

Heating element Heating cartridge 400 W

400 W Max. power consumption

Safety device **Temperature limiter**

Housing

Material Stainless steel 1.4305;

insulated on the inside

Dimensions 380 x 600 x 220 mm

Weight 9 kg Connections

Mounting flange DN65/PN6

Flange material Stainless steel 1.4571

-20°C ... +60°C **Ambient temperature**

Pressure 0.4 - 3.5 bar (abs.)

Heated Filter Housing

Material Stainless steel 1.4305 Filter element Ceramic, 2x 152 mm

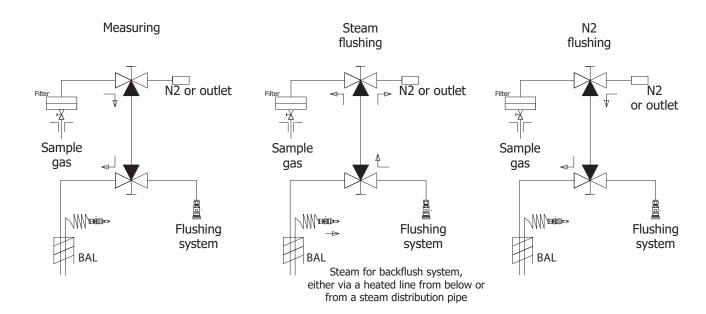
Filtration grade 0.5 μm

Filter handle Plastic material

Accessories (upon request)

- Adapter flange
- Temperature regulator
- · Connector housing for a heated analysis line/trace heating system

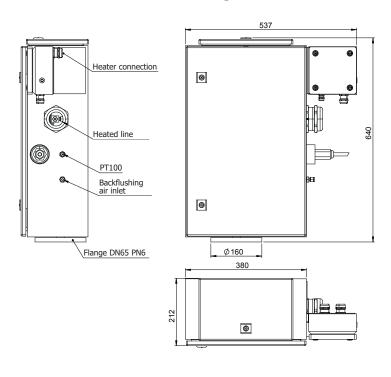
Gas flow diagram

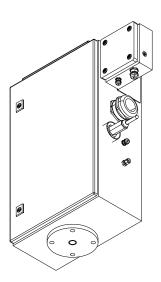


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Structural/dimensional drawing





Order number

Product	Order number
Heated gas sample probe; MGS-020_Ex; Stainless steel	1036138

Spare parts

Product	Order number
Filter element; set; ceramic filter 0.5 $\mu m; 152 \ mm$ long; with O-rings and sealing washers	1011758
Flange gasket DN65 PN6B (67); industrial material; Novapress	1022093
Heating cartridge (Ex)	1028346
Mineral insulated resistance thermometer	1028347
Safety temperature limiter	1035200
Limit switch 230 VAC; GS 500-10-0	1035199

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