



## Sample gas probe GAS 222.11 Ex2

In many applications gas analysis is the key for safe and efficient control of process flows, environmental protection and quality assurance. In extractive gas analysis the location of the gas sampling point is crucial for the reproducibility and accuracy of the analysis results.

The specific filter capacity, corrosion resistance and functional equipment requirements for the probe arise from the composition of the sample gas.

However, operating costs are also an important criterion in the selection, as the sampling points are frequently located at hard to access points in the system. Effective particle filter backwashing options and low maintenance characterise the extensive GAS probe series.

Versions with Atex and IECEx approval

Unheated probe with shut-off valve and/or upstream filter

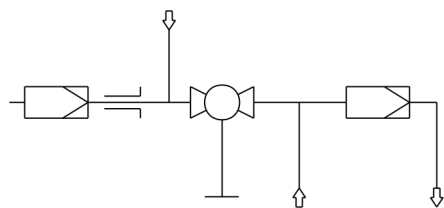
The filter element can easily be removed by turning the handle 90°

For dust loads up to 2 g/m<sup>3</sup>, non-condensable gases.  
Combined with upstream filter up to 10 g/m<sup>3</sup> and higher

The probe is suitable for use in explosive areas



## Flow chart



## Technical Data

### Gas Probe Technical Data

Ambient temperature without accessories: -20 to +80 °C

Ambient temperature for accessories:

#### Component

#### Ambient temperature range

Compressed air valve:

-30 °C < T<sub>amb</sub> < +60 °C

Solenoid valve for pneumatic drive:

-10 °C < T<sub>amb</sub> < +55 °C

Pneumatic drive:

-20 °C < T<sub>amb</sub> < +80 °C

Limit switch:

-25 °C < T<sub>amb</sub> < +60 °C

Terminal box:

-20 °C < T<sub>amb</sub> < +70 °C

Max. gas inlet temperature:

+195 °C (T3)/+130 °C (T4)

Medium temperature (blowback):

#### Component

#### Medium temperature range

Compressed air valve:

-10 °C to +80 °C

Solenoid valve for pneumatic drive:

-10 °C to +100 °C

Max. operating pressure

6 bar


Material:

1.4571; ball valve 1.4408

Parts in contact with media:

Seals: Graphite/1.4404  
and see filter

Markings:

ATEX:  II 3G Ex ec mb IIC T3/T4 Gc  
IECEx: Ex ec mb IIC T3/T4 Gc

## Ordering instructions

The item number is a code for the configuration of your unit. Please use the following model key:

4622211	X	X	X	X	X	X	0	0	X	X	X	X	X	X	Product Characteristics
															<b>Junction Box</b>
															0 No
															1 Yes
															<b>Flange</b>
															0 1 Flange DN65 PN6
															0 2 Flange DN3"-150
															<b>Hazardous area Outside and Inside</b>
															2 9 Ex-Zone 2 outside
															2 2 Ex-Zone 2 outside and inside
															<b>Temperature class</b>
															3 T3
															4 T4
															<b>Power supply sample probe</b>
															0 None
															<b>Calibration gas port</b>
															0 No
															1 6 mm
															2 6 mm with check valve
															3 1/4"
															4 1/4" with check valve
															<b>Capacitive vessel</b>
															0 No
															1 Yes (not for Zone 2 inside)
															<b>Valve for pressurized air</b>
															0 Ball valve
															1 Solenoid valve 115 V (marked "mb")
															2 Solenoid valve 230 V (marked "mb")
															3 Solenoid valve 24 V (marked "mb")
															9 none
															<b>Pneumatic actuator for internal ball valve</b>
															0 No
															1 Mono stable depressurized open
															2 Mono stable depressurized closed
															<b>Limit switch for pneumatic actuator</b>
															0 No
															1 Yes
															<b>Solenoid valve for pneumatic actuator</b>
															0 No
															1 Yes (marked "mb")

## Options

The base unit becomes functional by adding accessories suitable for the application. Please refer to accessory data sheet no. 461099 for information.

Please also refer to data sheet no. 461000 "GAS 222 Gas Probes" for a general description.

# Dimensions

