



Sample gas probe GAS 222.31 Amex

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.

Heated probe with shut-off valve, upstream filter, weather hood and terminal box

The probe body and the area around the screw connection for the heated sample gas line are completely isolated

Heater self-regulating to approx. 248 °F (T3)/158 °F (T4)

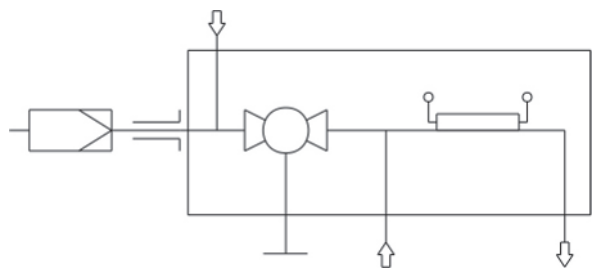
For dust loads up to 200 g/m³

This probe is suitable for use in explosive areas

C-US and CSA approval



Flow diagram



Technical Data

Gas Probe Technical Data

Self-regulating temperature:	248 °F (T3)/158 °F (T4)	
Ambient temperature:	-4 to 176 °F	
Ambient temperature with accessories:	Component	Ambient temperature range
	Compressed air valve:	14 °F < T _{amb} < 131 °F
	Solenoid valve for pneumatic drive:	14 °F < T _{amb} < 131 °F
	Pneumatic drive:	-4 °F < T _{amb} < 176 °F
Low temperature alarm:	Contact open at operating temperature, closes at < 203 °F (T3) resp. < 122 °F (T4); U _{max} =30 VDC, I _{max} =100 mA, Ci/Li~0	
Electrical data:	115 V-230 V, 50/60 Hz	
Max. operating pressure:	85 psia	
Parts in contact with media:	1.4571, ball valve 1.4408 Seals: PTFE/graphite/1.4404	
Explosion protection:	Class 1, Div 2, Gps B, C, D, T3 and T4	

Ordering instructions

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

4622231	1	6	6	X	3	X	0	0	X	9	X	X	9	X	Product Characteristics ¹⁾
															Ex temperature classes
															3 T3
															4 T4
															Sample probe power supply
															3 115 / 230 V
															Calibration gas connection
															0 No calibration gas connection
															1 6 mm
															2 6 mm + check valve
															3 1/4"
															4 1/4" + check valve
															Blowback with air reservoir ²⁾
															Air reservoir heating
															1 Yes
															9 No
															Compressed air valve/valve voltage information
															0 Manual
															1 120 V 60 Hz
															2 240 V 60 Hz
															9 None (if no blowback requested)
															Pneumatic drive for ball valve
															0 Manual
															1 Monostable pressure-free open
															2 Monostable pressure-free closed
															Control valve for pneumatic drive
															3 3/2-way valve
															9 No control valve

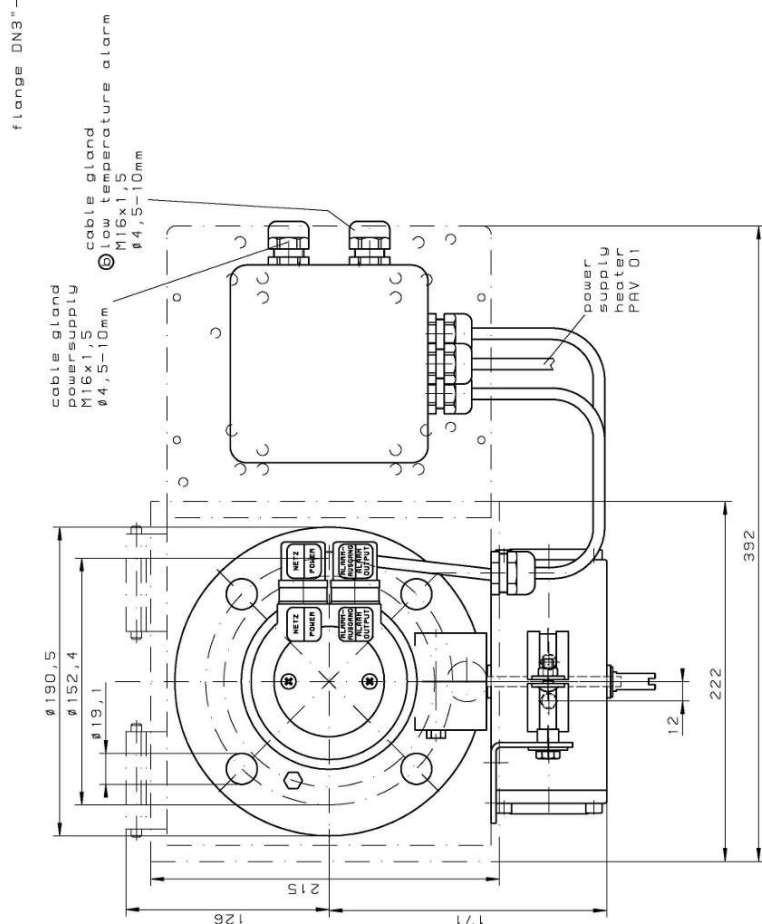
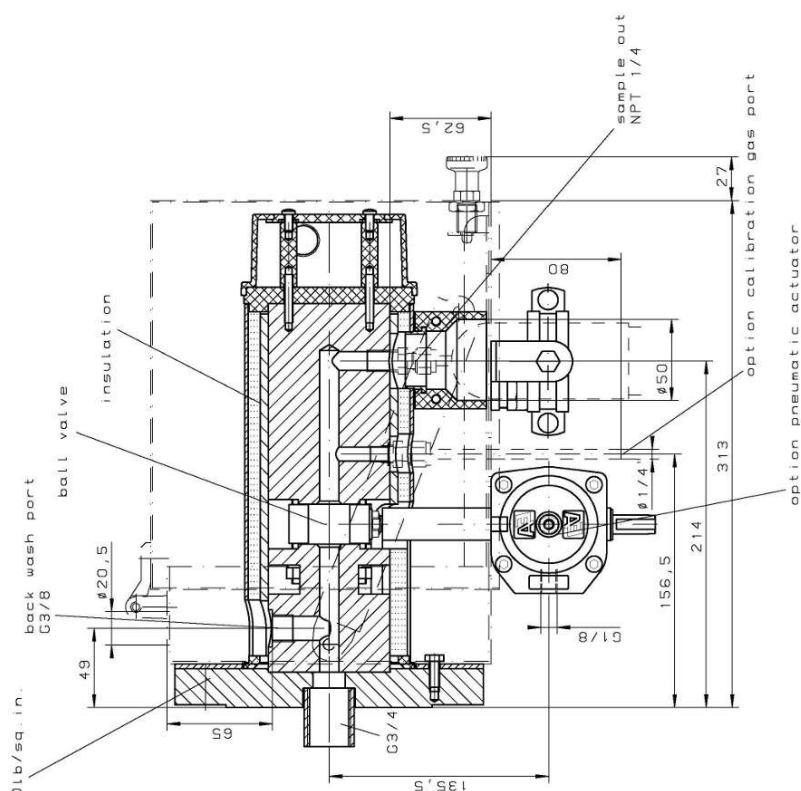
¹⁾ Please note, using certain accessories may limit gas probe use in Ex areas! Observe the respective operating manuals, accessory compatibility charts, and data sheets to ensure proper technical product design!

²⁾ In the case of flammable gases, always use inert gas for blowback. Probe blowback prohibited when using explosive sample gas!

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.



Part-No.	4622231C023	4622231C024
materials	1. 4571/SS316T1	
flange, head	1. 4404/SS316L/1	1. 4408/CF-8M/PTFE
ball valve	115-230V 50/60Hz	
heater self regulating	120°C/248°F	70°C/158°F
	95°C/203°F	45°C/113°F
-low temperature alarm	Umax=30VDC, I max=100mA, C/I L1~0	
-ambient temperature	-20 up to +80°C	
	- 4 up to +176°F	
pilot pressure	6 bar	
pneumatic actuator	Cl. 1, Div. 2, Gas. B, C, D	
design	T3	T4

[illegible]