Sample gas probe GAS 222.35 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 filter element can easily be removed by turning the handle 90°
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

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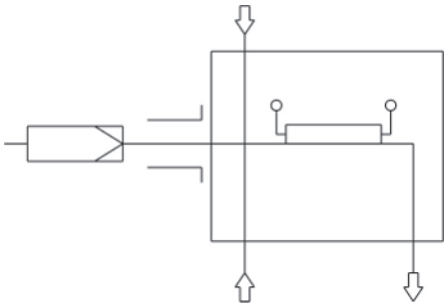
Flow diagram



Technical Data

Gas Probe Technical Data		
Self-regulating temperature:	257 °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
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 Seals: PTFE/Graphit/1.4404 and see filters	
Explosion protection:	Class 1, Div 2, Gps B, C, D	

Ordering instructions

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

4622235	1	6	6	X	3	X	0	0	X	9	X	9	9	9	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
												9			N/A
															Control valve for pneumatic drive
														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!

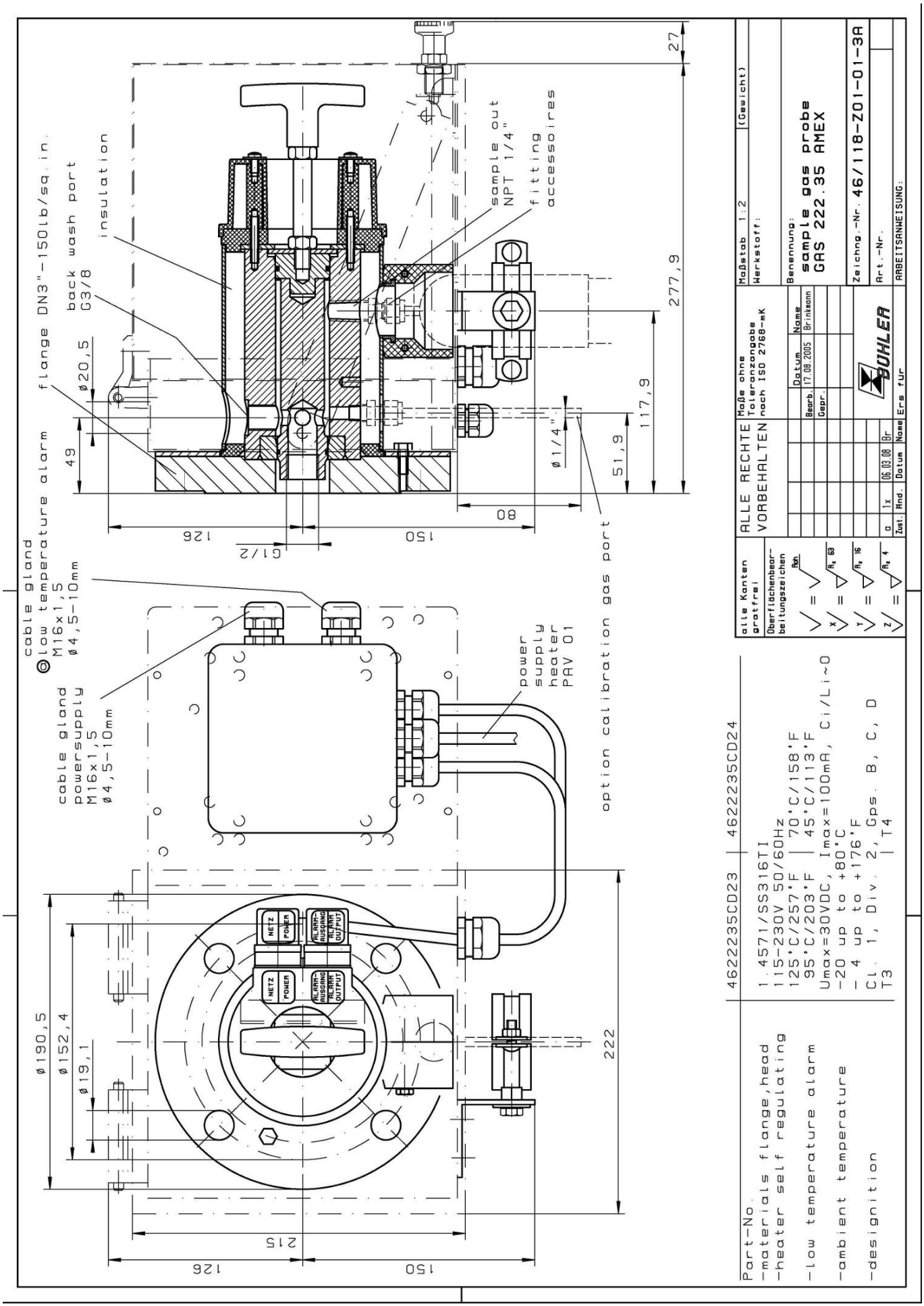
[2] In the case of flammable gases, always use inert gas for blowback. Probe blowback prohibited when using explosive sample gas!

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.

Dimensions


flange DN3"–150lb/sq.in.
back wash port G3/8
insulation
sample out NPT 1/4" fitting accessoires
cable gland low temperature alarm M16x1,5 ø4,5–10mm
cable gland powersupply M16x1,5 ø4,5–10mm
power supply heater PAV 01
option calibration gas port
ø20,5
49
126
150
G1/2
80
ø1/4"
51,9
117,9
277,9
27
222
215
ø190,5
ø152,4
ø19,1
4622235CD23 | 4622235CD24
1.4571/SS316TI
115–230V 50/60Hz
125°C/257°F | 70°C/158°F
95°C/203°F | 45°C/113°F
Umax=30VDC, Imax=100mA, Ci/Li~0
–20 up to +80°C
– 4 up to +176°F
Cl. 1, Div. 2, Gps. B, C, D
T3 | T4
Part–No.
–materials flange,head
–heater self regulating
–low temperature alarm
–ambient temperature
–designition
ALLE RECHTE VORBEHALTEN
Maße ohne Toleranzangabe nach ISO 2768–mK
alle Kanten gratfrei
Oberflächenbearbeitungszeichen
Maßstab 1:2
(Gewicht)
Werkstoff:
Benennung:
sample gas probe GAS 222.35 AMEX
Zeichng.–Nr. 46/118–Z01–01–3A
Art.–Nr.
ARBEITSANWEISUNG:
BÜHLER