



Sample gas probe GAS 222.20 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

Heated probe with downstream filter and weather hood

The downstream filter 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 insulated

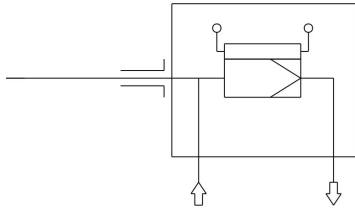
Heater self-regulating to approx. 130 °C (T3)/70 °C (T4) with low temperature alarm

For dust loads up to 2 g/m³

This probe is permitted 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
	Junction box:	-20 °C < T _{amb} < +70 °C
Max. gas inlet temperature:	+195 °C (T3)/+130 °C (T4)	
Self-regulating heater:	+130 °C (T3)/+70 °C (T4)	
Low temperature alarm:	Contact switches at < 95 °C (T3) or < 50 °C (T4); Simple electrical equipment according to EN 60079-11; U _i 30 V, I _i = 100 mA; C _i /L _i ~0	
Electrical data:	230 V, 2.0 A, 50/60 Hz 115 V, 3.8 A, 50/60 Hz	
Max. operating pressure:	6 bar	
Material:	1.4571	
Parts in contact with media:	Seals: Graphite/1.4404 and see filter	
Markings:	ATEX:  II 3G Ex ec ic mb IIC T3/T4 Gc IECEx: Ex ec ic 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:

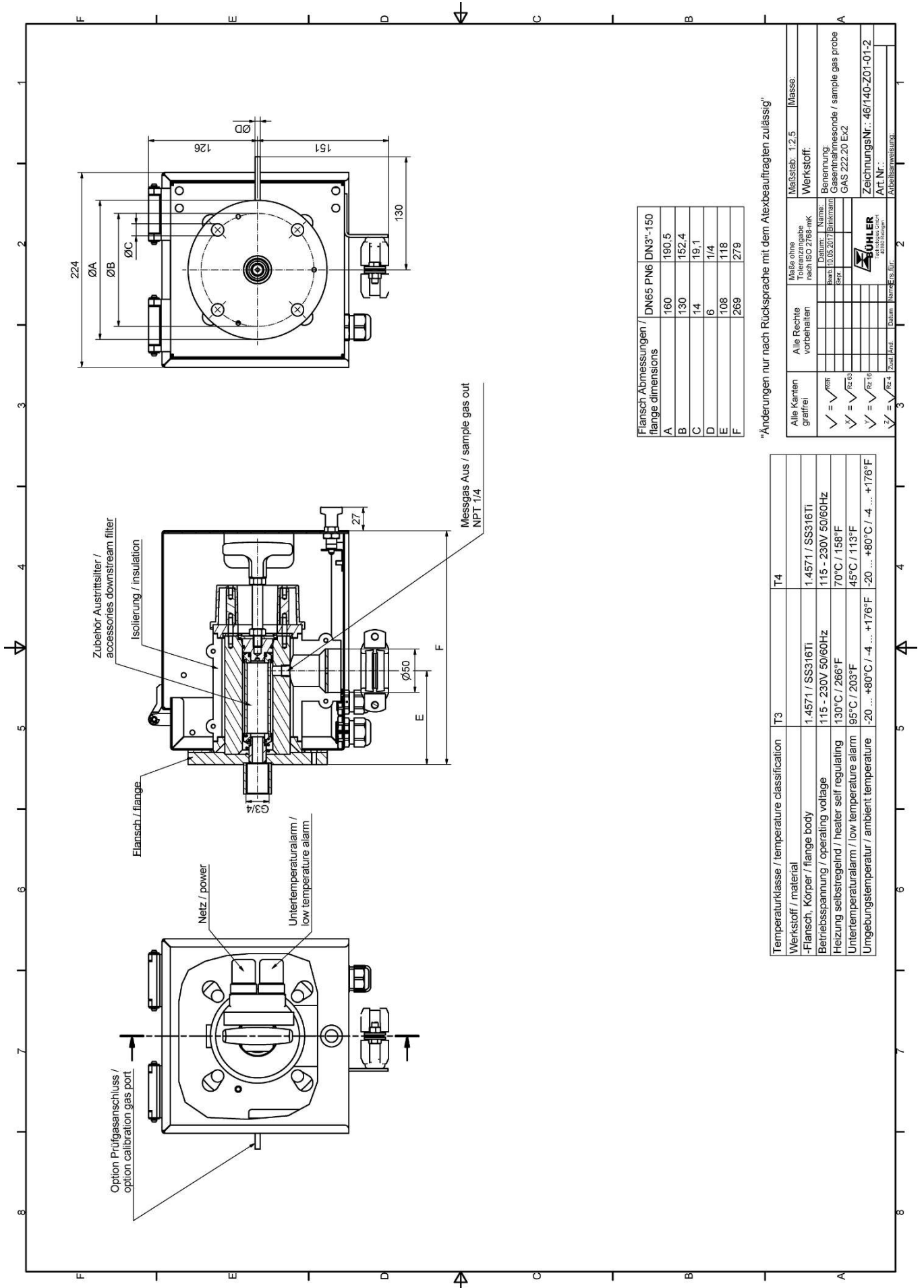
4622220	X	0	X	X	X	X	3	X	X	0	9	0	0	0	Product Characteristics
															Junction box
		0													No
		1													Yes
															Flange
		0	1												Flange DN65 PN6
		0	2												Flange DN3"-150
															Hazardous area Outside and Inside
				2	9										Ex-Zone 2 outside, none inside
				2	2										Ex-Zone 2 outside and inside
															Temperature class
				3											T3
				4											T4
															Power supply sample probe
										3					115/230 V
															Low temperature alarm
														1	Opener (open at operating temperature) (marked with "ic")
														2	Closer (closed at operating temperature) (marked with "ic")
															Calibrating gas port
														0	No
														1	6 mm
														2	6 mm with check valve
														3	1/4"
														4	1/4" with check valve

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

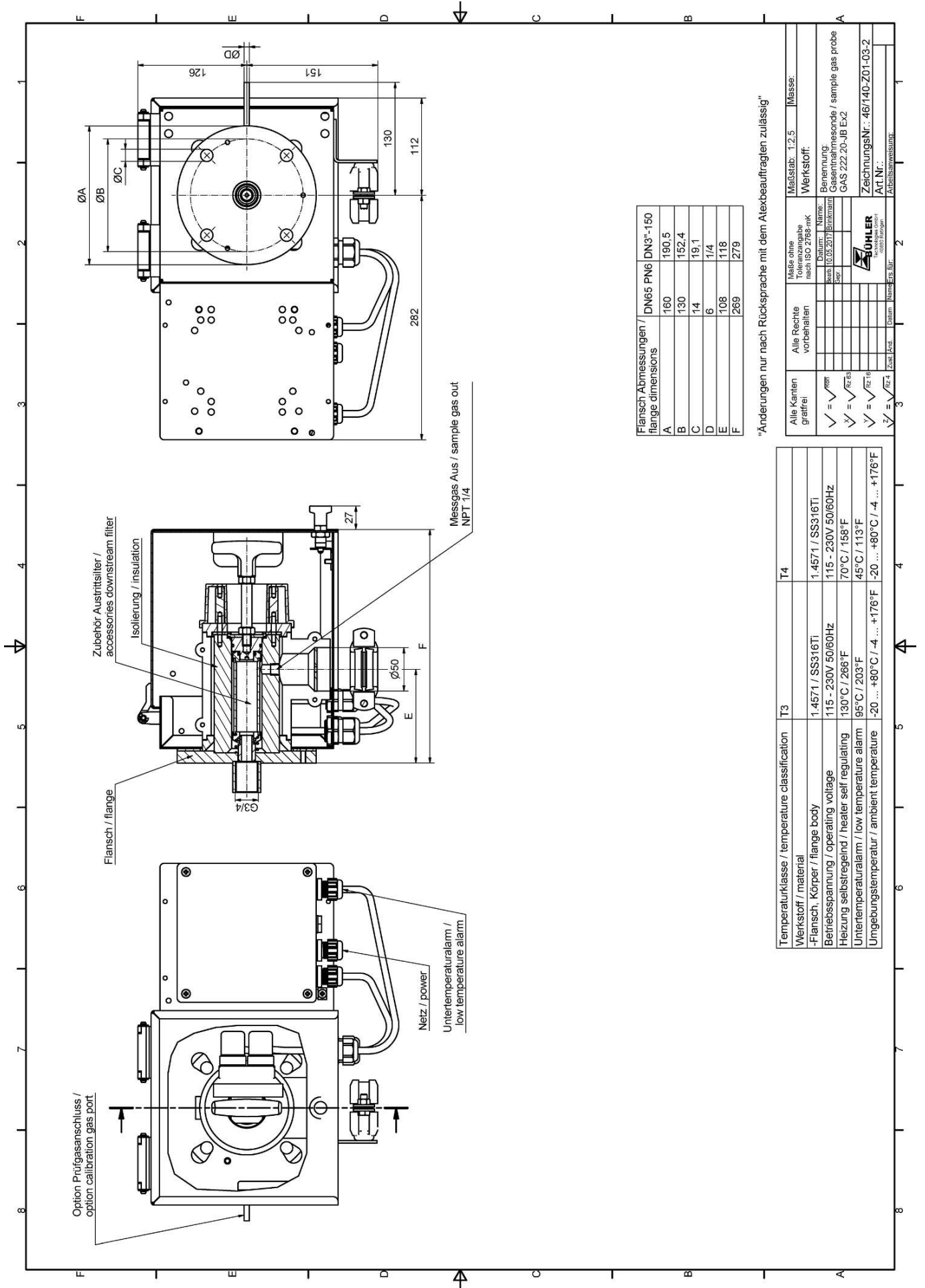


Flansch Abmessungen / flange dimensions	DN65 PN6 DN3"-150
A	160
B	130
C	14
D	6
E	108
F	269

Änderungen nur nach Rücksprache mit dem Alexbeauftragten zulässig

Alle Kanten gratfrei	Alle Rechte vorbehalten	Maßstab: 1:2,5	Werkstoff:
✓ = $\sqrt{R_{eH}}$	✓ = $\sqrt{R_{eH}}$	Maße ohne Toleranzangabe nach ISO 2768-mK	Benennung:
✓ = $\sqrt{R_{eH}}$	✓ = $\sqrt{R_{eH}}$	Name: _____	Gesamtnahmesonde / sample gas probe
✓ = $\sqrt{R_{eH}}$	✓ = $\sqrt{R_{eH}}$	Datum: _____	GAS 222.20 Ex2
✓ = $\sqrt{R_{eH}}$	✓ = $\sqrt{R_{eH}}$	ZeichnungsNr.: 46/140-Z01-01-2	
✓ = $\sqrt{R_{eH}}$	✓ = $\sqrt{R_{eH}}$	Art.Nr.:	
✓ = $\sqrt{R_{eH}}$	✓ = $\sqrt{R_{eH}}$	Abteilungsbezeichnung:	

Temperaturklasse / temperature classification	T3	T4
Werkstoff / material	1.4571 / SS316Ti	1.4571 / SS316Ti
-Flansch, Körper / flange body	115 - 230V 50/60Hz	115 - 230V 50/60Hz
Betriebsspannung / operating voltage	130°C / 266°F	70°C / 158°F
Heizung selbstregelnd / heater self regulating	95°C / 203°F	45°C / 113°F
Untertemperaturalarm / low temperature alarm	-20 ... +80°C / -4 ... +176°F	-20 ... +80°C / -4 ... +176°F
Umgebungstemperatur / ambient temperature		



Flansch Abmessungen / flange dimensions	DN65 PN6	DN3"-150
A	160	190,5
B	130	152,4
C	14	19,1
D	6	1/4
E	108	118
F	269	279

Änderungen nur nach Rücksprache mit dem ATEXbeauftragten zulässig

Temperaturklasse / temperature classification	T3	T4
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Alle Rechte vorbehalten	Alle ohne Typenbezeichnung nach ISO 2768 mK	Maßstab: 1:2.5	Messe:
Alle Kanten gratfrei	Datum: 10.05.2017	Werkstoff:	
✓ = \sqrt{Rz}	Name:	Benennung:	
✓ = $\sqrt{Rz,3}$	Bezeichnung:	Gasentnahmesonde / sample gas probe	
✓ = $\sqrt{Rz,16}$	Bezeichnung:	GAS 222.20-Ex2	
✓ = $\sqrt{Rz,4}$	Zeichnungs-Nr.:	46140-Z01-03-2	
	Art.Nr.:		
	Arbeitsweise:		
	Zust. End.	Datum:	2