

Sample gas probe GAS 222.20 Atex

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 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 isolated

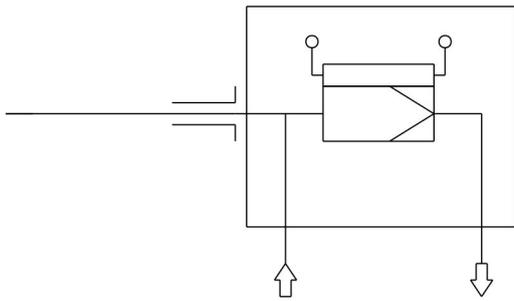
Heater self-regulating to approx. 176 °F

For dust loads up to 2 g/m³

This probe is designed for use in explosive areas (Zone 21, 22 and extracting from Zone 20)



Flow chart



Technical Data

Gas Probe Technical Data

Ambient temperature:	-4 to 122 °F	
Permissible gas inlet temperatures:	Outer zone temperature class	Permissible gas inlet temperature
	T3	275 °F
	T4	266 °F
Self-regulating heater:	176 °F	
Electrical data:	Probe: 230 V, 2.0 A, 50/60 Hz 115 V, 3.8 A, 50/60 Hz	External circuit breaker type C: 230 V, 2 A, 50/60 Hz 115 V, 3 A, 50/60 Hz
Max. operating pressure:	85 psia	
Max. flow rate:	16.66 lpm	
Material:	1.4571	
Parts in contact with media:	Seals: Graphite/1.4404 and see filter	
Marks*:	ATEX:  1GD / 2GD T4 T130 °C	

* Please note, using special accessories may limit the approved applications of the probes.

Ordering instructions

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

46222200	X	X	4	X	X	0	0	9	9	9	9	9	9	Product Characteristics
														Flange
														DIN DN65 PN6
														Explosive outdoor areas
		4												Zone 21
		5												Zone 22
														Explosive indoor areas
		3												Zone 20
		4												Zone 21
		5												Zone 22
														Ex temperature classes
		4												T4
														Probe voltage
		1												115 V
		2												230 V
														Calibrating gas connection
		0												No calibrating gas connection
		1												6 mm
		2												6 mm + check valve
		3												1/4"
		4												1/4" + check valve

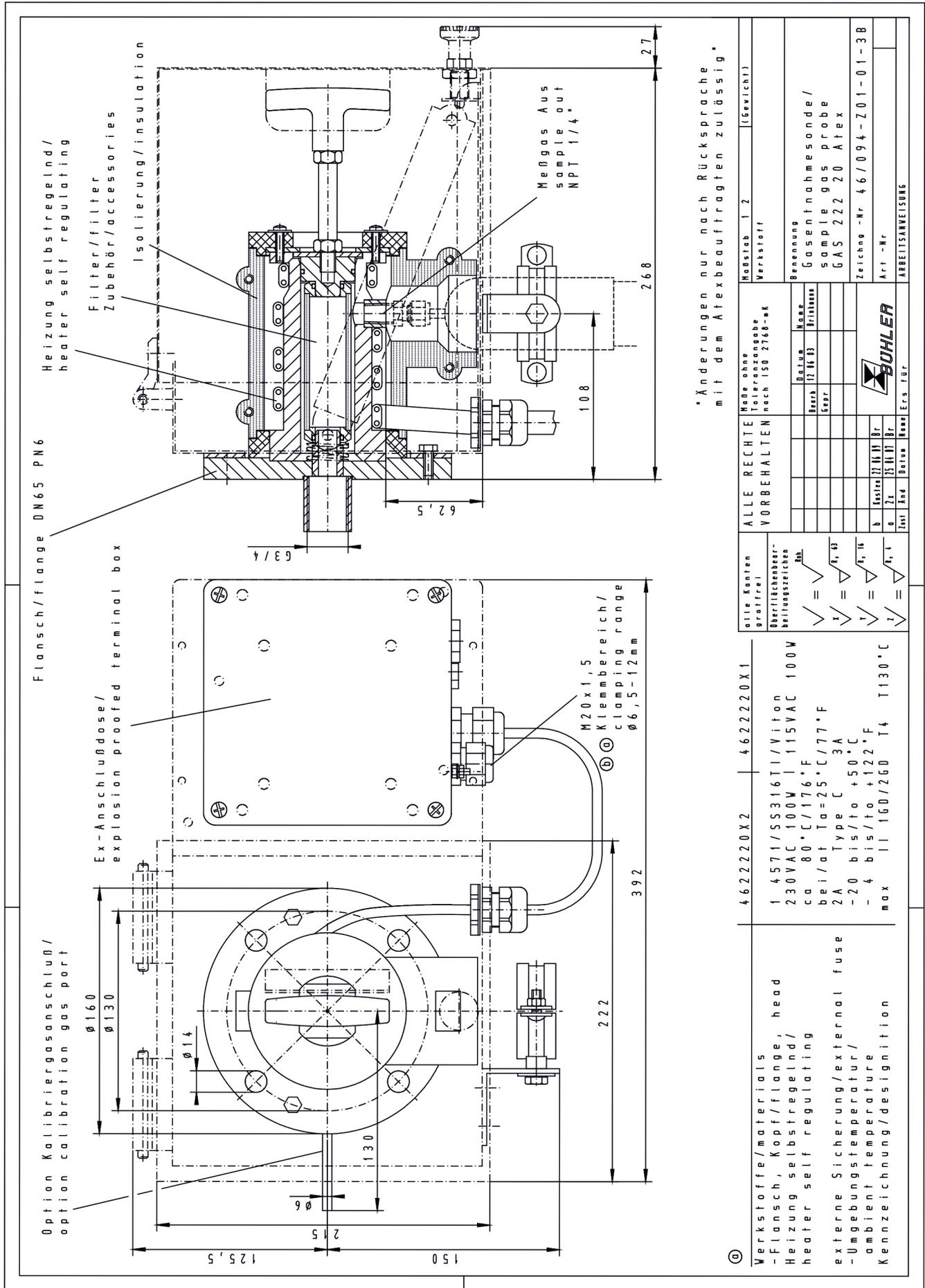
¹⁾ Please note, using certain accessories may limit gas probe use in Ex areas! Observe the respective operating manuals, accessory compatibility charts, and data sheets to ensure proper technical product design!

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



* Änderungen nur nach Rücksprache mit dem Atexbeauftragten zulässig.*

Werkstoffe/materials -Flansch, Kopf/flange, head Heizung selbstregelnd/ heater self regulating externe Sicherung/external fuse -Umgebungstemperatur/ ambient temperature Kennzeichnung/designation		4622220X2 1 4571/SS316Ti/Viton 230VAC 100W 115VAC 100W ca 80°C/176°F bei/at Ta=25°C/77°F 2A Type C 3A -20 bis/to +50°C - 4 bis/to +122°F max 160/260 T4 T130°C	4622220X1 1 4571/SS316Ti/Viton 230VAC 100W 115VAC 100W ca 80°C/176°F bei/at Ta=25°C/77°F 2A Type C 3A -20 bis/to +50°C - 4 bis/to +122°F max 160/260 T4 T130°C
alle Kanten gratfrei/gratefree Oberflächenbearbeitungszeichen √ = √ Rn √ = √ Rr, Rz √ = √ Rr, Rz √ = √ Rr, Rz	ALLE RECHTE VORBEHALTEN Maße ohne Toleranzenangebe nach ISO 2768-mk Name Bestell-Nr. Datum Gepr. Prüfstelle	Maßstab 1:2 (Gewicht) Werkstoff Benennung Gasentnahmesonde/ sample gas probe GAS 222 20 Atex Zeichnung -Nr 46/094-Z01-01-38 Art -Nr ARBEITSANWEISUNG	BÜHLER