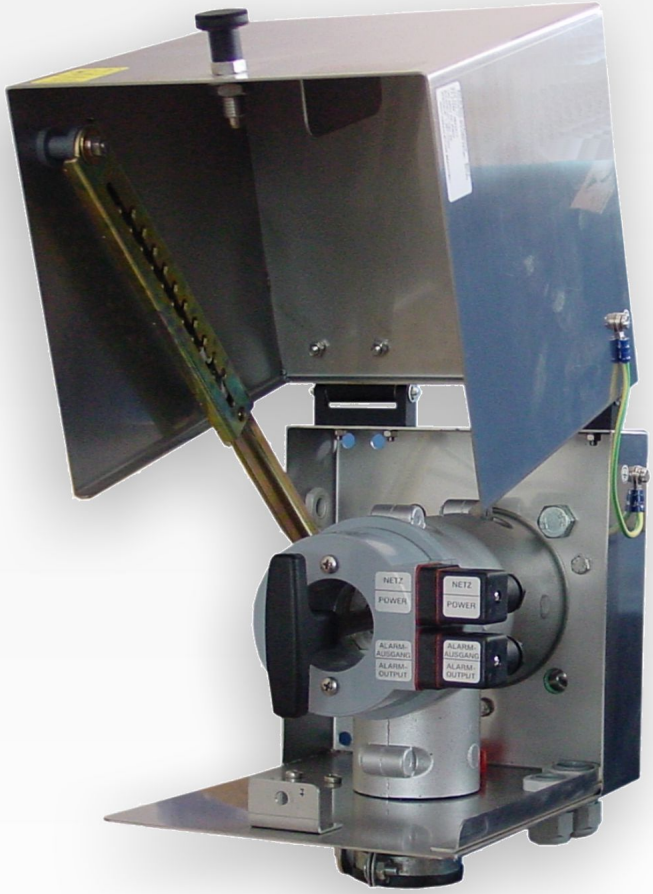


Sample gas probe GAS 222.17

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.

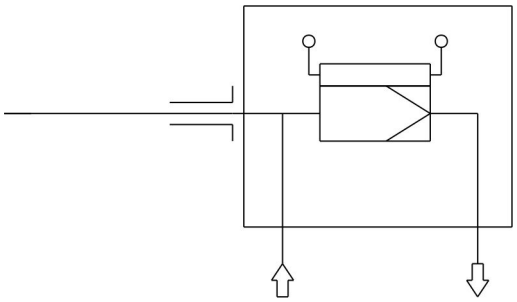
The specific filter capacity, corrosion resistance and functional equipment requirements for the probe arise from the composition of the sample gas.

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 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
- Self-regulating heater to approx. 356 °F with low temperature alarm
- For dust loads up to 2 g/m³
- This probe is not permitted for use in Ex areas
- Optional coating of parts in contact with media using SilcoNert® 2000

Buhler Technologies LLC, 1030 West Hamlin Road, Rochester Hills, MI 48309
Phone: 248.652.1546, Fax: 248.652.1598
e-mail: sales@buhlertech.com
Internet: www.buhlertech.com

Flow chart



Technical Data

Gas Probe Technical Data	
Probe operating temperature:	max. 392 °F
Ambient temperature:	-4 to 176 °F
Self-regulating heater:	356 °F
Low temperature alarm:	Contact open at operating temperature, closes at < 284 °F Max. switching current 4 A
Electrical data:	230 V, 2.0 A, 50/60 Hz 115 V, 3.8 A, 50/60 Hz
Protection class:	IP54
Max. operating pressure:	85 psia
Parts in contact with media:	Flange: 1.4571 Seals: Graphite/1.4404 and see filter Optional coating with SilcoNert® 2000 *

*The SilcoNert® 2000 coating forms a layer of hydrogenated, amorphous silicon on the surfaces of the measuring gas probe that are in contact with media. It is applied by chemical vapour deposition (CVD), which creates a uniformly thin layer on the surface. SilcoNert® 2000 is temperature-resistant up to 752 °F, chemically inert and hydrophobic. The coating is resistant to many chemically corrosive liquids. If you are unsure about the suitability for specific gas matrices, please contact Bühler Technologies GmbH.

Ordering instructions

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

4622217	X	9	9	0	3	X	0	0	9	9	9	9	9	SN	Product characteristic
															Flange
	0														DIN DN65 PN6
	1														ANSI 3"-150 lbs - with CSA C & US approval
	2														ANSI 3"-150 lbs - without CSA C & US approval
															Power supply sample probe
					3										115/230 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
															Glass coating of parts in contact with media
														SN	SilcoNert® 2000 [1]

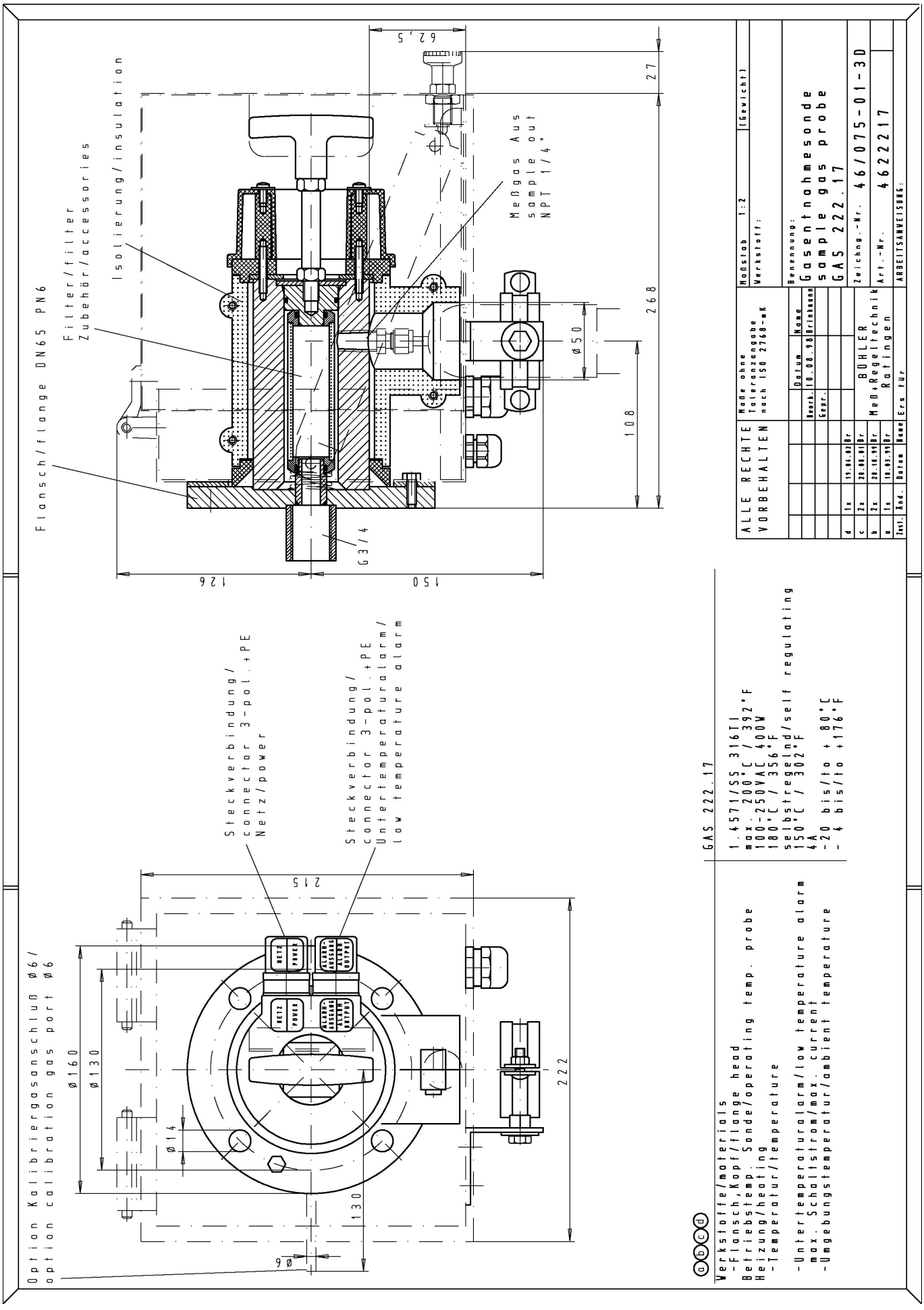
[1] Extends delivery time by approx. 6 weeks.

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/flange DN65 PN6
Filter/filter
Zubehör/accessories
Isolierung/insulation
Meßgas Aus
sample out
NPT 1/4"
G3/4
62,5
27
268
108
Ø50
126
150
Steckverbindung/
connector 3-pol.+PE
Netz/power
Steckverbindung/
connector 3-pol.+PE
Untertemperaturalarm/
low temperature alarm
Option Kalibriergasanschluß Ø6/
option calibration gas port Ø6
Ø160
Ø130
Ø14
215
222
130
9Ø
GAS 222.17
1.4571/SS 316TI
max. 200°C / 392°F
100-250VAC 400W
180°C / 356°F
selbstregelnd/self regulating
150°C / 302°F
4A
-20 bis/to + 80°C
- 4 bis/to +176°F
Werkstoffe/materials
-Flansch,Kopf/flange head
Betriebstemp. Sonde/operating temp. probe
Heizung/heating
-Temperatur/temperature
-Untertemperaturalarm/low temperature alarm
max. Schaltstrom/max. current
-Umgebungstemperatur/ambient temperature
ALLE RECHTE VORBEHALTEN
Maße ohne Toleranzangabe nach ISO 2768-mK
BÜHLER Meß+Regeltechnik Ratingen
Maßstab 1:2 (Gewicht)
Werkstoff:
Benennung: Gasentnahmesonde sample gas probe GAS 222.17
Zeichng.-Nr. 46/075-01-3D
Art.-Nr. 4622217
ARBEITSANWEISUNG:
Ers. für
Name
Datum
Bearb. 10.00.98 Dr/Inkmann
Gepr.
d 1x 19.04.02 Dr
c 2x 23.03.01 Dr
b 2x 28.10.99 Dr
a 1x 18.03.99 Dr
Zust. Änd. Datum Name

Dimensions (ANSI flange)

