



Sample gas probe GAS 222.35

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 upstream filter and weather hood

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

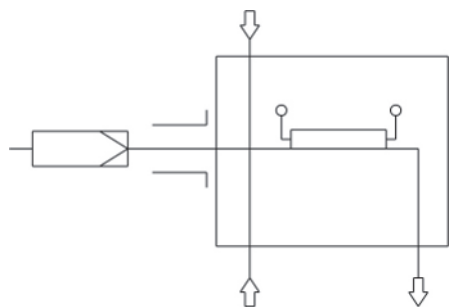
Electronic temperature controller up to 200 °C with low/high temperature alarm and display

For dust loads up to 200 g/m³

This probe is not suitable for use in Ex areas



Flow chart



Technical Data

Gas Probe Technical Data

Probe operating temperature:	max. 200 °C	
Ambient temperature without accessories:	-20 to +70 °C	
Ambient temperature with accessories:	Component	Ambient temperature range
	Compressed air valve:	-10 °C < T _{amb} < +55 °C
Medium temperature (blowback):	Component	Medium temperature range
	Compressed air valve:	-10 °C to +80 °C
Regulator setting range:	+50 to +200 °C	
Low/high temperature alarm:	Alarm adjustable ±5.....30 K from setpoint, factory preset 15 K Max. switching current 1 A	
Electrical data:	230 V, 2.0 A, 50/60 Hz 115 V, 3.8 A, 50/60 Hz	
IP rating:	IP54	
Max. operating pressure:	6 bar	
Parts in contact with media:	Flange: 1.4571 Seals: Graphite/1.4404 and see filter	

Ordering instructions

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

4622235	X	9	9	0	X	X	0	0	X	X	X	9	9	9	Product Characteristics
															Flange
															DIN DN65 PN6
															ANSI 3"-150 lbs - without CSA C & US approval
															Power supply sample probe
															115 V
															230 V
															Calibrating gas connection
															No calibrating gas connection
															6 mm
															6 mm + check valve
															1/4"
															1/4" + check valve
															Connection heated extension
															No
															Built-in temperature controller ¹⁾
															No
															Blowback with air reservoir ²⁾
															Air reservoir heating
															Yes
															No
															Built-in blowback control ¹⁾
															Internal controller
															No
															Compressed air valve / valve voltage information
															Manual
															115 V
															230 V
															24 V
															None (if no blowback requested)
															Pneumatic drive for ball valve
															N/A
															Limit switch for pneumatic drive
															No
															Control valve for pneumatic drive
															No control valve

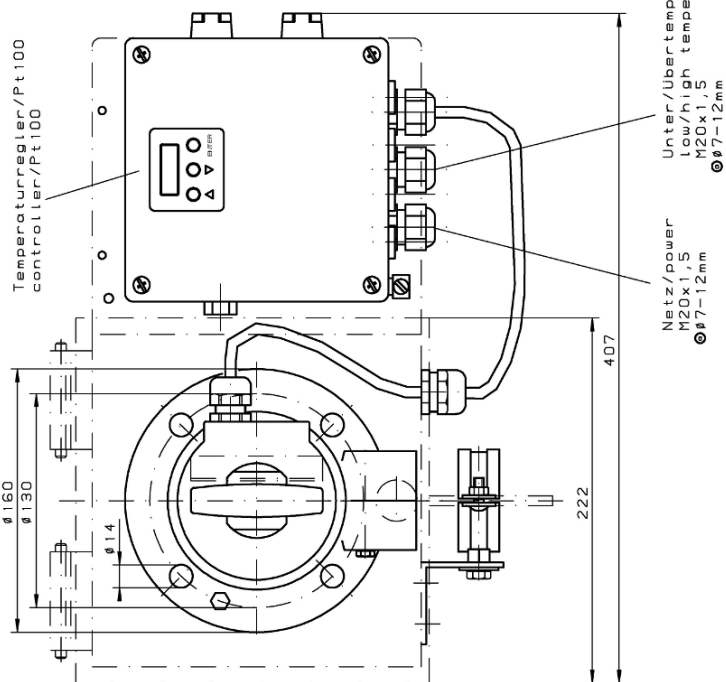
¹⁾ The electronics can either be equipped with temperature controller for heated extension or blowback control.

²⁾ For flammable sample gas, always use inert gas for blowback. Probe blowback prohibited when using explosive gases!

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.



Art.-Nr. / part-no.	4622235	4622236
Werkstoffe/materials		
Flansch, Kopf / flange, head	1.4571 / SS316Ti	
Betriebstemperatur Sonden/ operating temperature probe	max. 200°C / 392°F	
Heizung / heater		
Temperaturbereich / temperature range	230V 50/60Hz 40W	115 50/60Hz 425W
Alarm einstellbar / alarm adjustable	50 ... 200°C / 122 ... 392°F	
	±5 ... 30°C / ±9 ... 54°F	
	vom Sollwert / from set-point	
werkseitig eingestellt / factory set	±15°C / ±27°F	
max. Schaltstrom / max. current	1A	
Schutzart / degree of protection	IP54	
Umgebungstemperatur / ambient temperature	20 ... +70°C / -4 ... +158°F	

[illegible]

Dimensions (ANSI flange)

NOTICE! ANSI flange only available without CSA approval.

