Heated Sampling Tube ATEX

Application

The heated gas sampling tubes series **PSG Heated Sampling Tube ATEX** are used for continuous extractive gas analysis. They enable trouble-free representative sampling of hot predominantly dust and water vapour loaded gases in explosion-endangered areas. Typical applications are emission measurement, process monitoring and process optimization.

Technology

The intelligent design of the double jacket tube with homogeneous controlled heating up to 110°C over the entire tube length enables a trouble-free extraction of sample gas without condensate formation. The mounting flange with stud bolts on both sides (DN65PN6) enables a seamless adaption to the gas sampling probes **PSG Basic Probe** und **PSG Plus Probe** as well as to the process flange DN65PN6. For other process flange dimensions adapter flange connectors are available.

Functions

Due to homogeneous heating up to 110°C, zones are bridged where temperature is possibly falling below the dew point resp. acid dew point of the sample gas on its way from sampling point to gas sampling probe. Thus, condensate formation and therefore blocking and damaging of the tube as well as washing out of water-soluble sample gas components like SO_2 is prevented. With optional G3/4“-internal thread at the tube end the heated gas sampling tube **PSG Heated Sampling Tube ATEX** can be extended with all unheated sampling tubes and pre-filters from the **PSG** product range.

- ✔ Homogeneous heating over entire tube length
- ✔ For use in Ex-zone 1 and 2
- ✔ Corrosion resistant out of SS316Ti
- ✔ Self-regulated heating up to 110°C
- ✔ No cold spots
- ✔ In arbitrary lengths up to 2m available
- ✔ Protection class IP65
- ✔ Low dead volume
- ✔ Tube end with G3/4“ female thread as option for extension with optional unheated tube or pre-filter

State 07 / 2022 | Subject to change

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PSG Perfect Sample Gas

Technical Data

Process gas sampling conditions Heated Sampling Tube ATEX		Part No.
Pressure	p_{abs} = 50…600 kPa	
Temperature	max. 120 °C	
Flow	30…1500 l/h, referred to 100 kPa and 0 °C	
Max. dust concentration	3 g/m³	
Connections		
Extension tube / pre-filter	G3/4" i (DIN ISO 228/1) optional	80060674
Heating		
Type	Self-regulating heating tape	
Holding temperature	Up to 110 °C	
Design		
Standard lengths (other lengths on request)	0,5m	80060329
	1m	
	1,5m	
	2,0m	
Material	Stainless steel SS316Ti	
Ambient temperature	-20°C … +120°C	
Weight	ca.11 kg (1m)	
Diameter	external: 76,1mm, internal: 22mm	
Dead volume	380 ml/m	
Protection class	IP65 EN 60529	
Electrics		
Heat capacity heating tape	100 W/m	
Voltage	230VAC 50…60Hz (115V on request)	
Electrical connection	terminals 3 x 4mm² MXK4 and 1 x MSLKG5, cable gland 1xM25x1,5 and 1xM20x1,5	
Electrical standard	EN 61010, EN 60519-1	
Mounting		
Flange	Stud bolts on both sides M12 x 21mm corresponding to DN65PN6 form B according to DIN 2527	
Material	Flange gasket Klingersil DN65PN6, 4 x nut M12, 4 x spring washers and washers	
Installation angle	10°-35° inclination to horizontal position (recommended)	
Materials in contact with sample gas		
Tube, flange, connections	Stainless steel SS316Ti	

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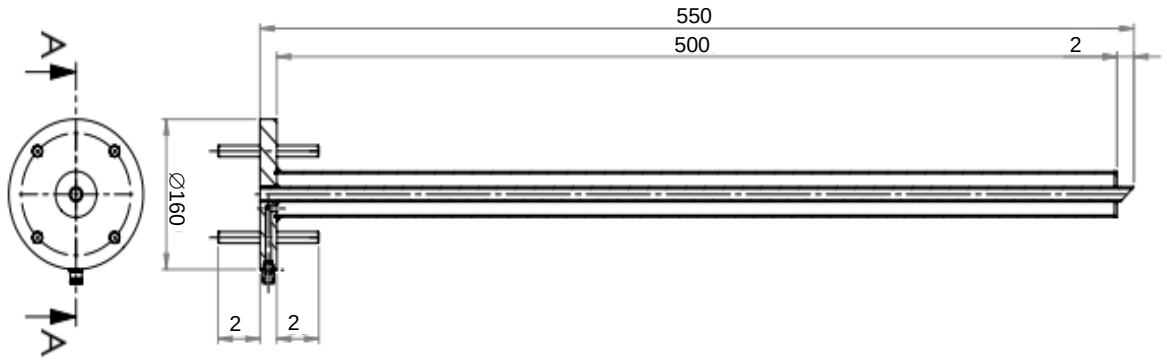
Dimensions



Dimmensions in mm

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