Sample Gas Probe
SGP1

Heated Probe

Unheated Probe

FEATURES

- Used in Gas Analyzer Conditioning
- Stainless steel construction
- Optional Calibration / Pulsating Purge Port
- Flange Mount
- Available Probe Regulation Temperature up to 130°C / 180°C
- Dust & Water Protected

ADVANTAGES

- Economical
- Ease of Maintenance & Operation
- Outdoor and Indoor application
- Replacement of filter element without any tool
- Less volume & Fast response time

DESCRIPTION

In any sample gas conditioning, the sample take-off point is a very challenging part of the process and sample conditioning system. Hence the AXIS sample gas probe SGP1 is specifically designed for this harsh and robust environment with competitive cost.

The reliable and long-term operation of any process analyzer depends upon the efficiency of the sample conditioning system for which dust, solid particulate, and moisture-free sample gas is essential.

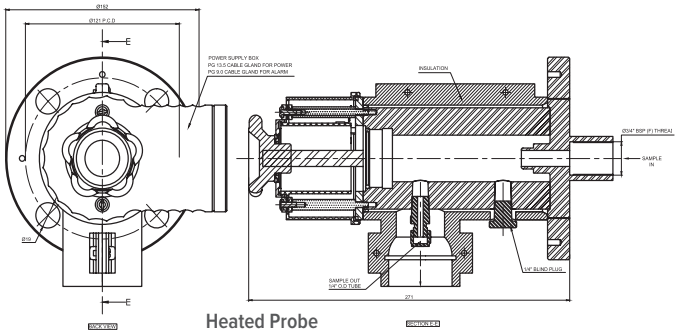
SGP1 is equipped & designed with efficient variable filters by removing aerosols, dust content, and humidity by ensuring the security of the analyzer as well as further sample conditioning system.

The main application of SGP1 is to extract the gas for analysis in the Continuous Monitoring and Emissions System. SGP1 ensures easy mounting and installation, safe operation, and trouble-free maintenance

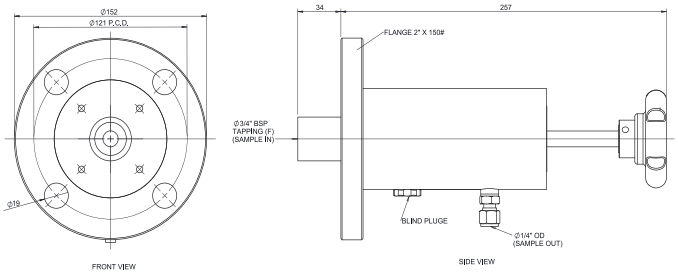
The internal filter element can be changed without any tool and disassembling of the sample lines. The complete filter assembly is removed from the probe head side. This makes it simpler to check the filter element & gasket condition.

The SGP1 heated probe power supply can be in either 110 VAC or 230 VAC as per customer requirement. There is no temperature control required as a self-regulating heater is present. A separate thermostat is provided for low-temperature monitoring. For Electrical connection to SGP1, a separate Junction box is provided

DIMENSION DETAILS



Heated Probe



Unheated Probe

All Dimension are in MM

TECHNICAL SPECIFICATION

General	Mounting Angle	5° - 15° recommended
	Mounting	Flange
	Sample	Flue Gas or process gas
	Weight	Approx. 8 Kg
Material	Probe Flange	SS 316
	Probe Body	SS 316
	Probe Filter	SS 316 Pleated, SS 316 Sintered, Ceramic (Optional)
Connections	Sample Gas Inlet	3/4'' BSP (F)
	Sample Gas Outlet	1/4'' OD
	Purge port	1/4'' NPT (F) (Optional)
Electrical*	Power Supply	110 VAC or 230 VAC, 50 or 60Hz
	Probe heating	Up to 130°C / 180°C
	Ready for Operation	after 45-60 min
Functionality	Sample pressure	Max. 6 bar
	Dust Load	2 gram / Nm^3
	Ambient Temperature	0°C to + 80°C
	Low Temperature Alarm	< 120°C (Optional)
	Filter Chamber Volume	Approx. 28.27 cm^3
	Filter Porosity	0.3, 0.5, 5, 10 Micron

Note : (*) This will not be applicable in Unheated Probe.

SPARES

Description	Part No.	Quantiy
10µ, SS 316 Pleated Filter	ASPL4406	1 No.
0.5µ, SS 316 Sintered Filter	ASPL8664	1 No.
5µ, SS 316 Sintered Filter	ASPL6157	1 No.
0.3µ, Ceramic Filter	ASPL11966RFD	1 No.
5µ, Ceramic Filter	ASPL11967RFD	1 No.
5µ, SS 316 Pleated Filter	ASPL4405	1 No.

ORDERING INFORMATION

SGP1								9	Description
	Type of Probe								
	0								Unheated
	1								Heated
		Power Supply							
		0							None for unheated probe
		1							110 VAC, 50 Hz
		2							230 VAC, 50 Hz
		3							110 VAC, 60 Hz
		4							230 VAC, 60 Hz
			SS 316 Flange Size						
			0						2'' 150#
			1						Others
			2						4'' 150#
				Type of filter Element					
				0					SS 316 Pleated
				1					SS 316 Sintered
				2					Ceramic
				Probe Extension 3/4" Dia. (SS 316) Pipe length					
					0				1000 mm
					1				1500 mm
					2				Others
					3				500 mm
						Retention Rate			
						0			0.5 Micron (Note 1)
						1			5 Micron (Note 2)
						2			10 Micron (Note 3)
						3			0.3 Micron (Note 4)
							Probe Heating / Self Regulation		
							0		Up to 130°C
							1		Up to 180°C

Note 1 : 0.5 Micron with SS 316 Sintered Filter.
Note 2 : 5 Micron with All Types.
Note 3 : 10 Micron with SS 316 Pleated
Note 4 : 0.3 Micron with Ceramic Filter