Gas Sample Probe Series ASP

Version ASP 611, ASP 613 Heated

Application

The **ASP** gas sample probes are designed for continuous gas sampling in difficult processes with gases of high or low dust content, different temperatures and extreme humidity.
As the ASP is available in 3 different lengths, it is suitable for applications with low to very high dust loads.
Depending on the acid dew point, the standard probe operates at 180°C or when necessary with a high temperature version at 320°C (e.g. Denox applications).

Description

Due to its modular design and various options, the Ankersmid heated sample probe filters cover the **widest** range of applications.
With a choice of 3 different lengths of heated filter body, a filter element of 150mm length, suitable for most applications up to 1g dust/m³ can be integrated. 250mm filters are used for applications up to 4g dust/m³; with the optional blow-back function dust loads of up to 10g/m³ can be handled.
The 500mm model filter has a capacity for dust up to 10g/m³.
When this type is equipped with blow-back option, it handles up to 20g/m³. For even higher dust loads, a primary filter is positioned on top of the first filter.
The big advantage is that both filters **are replaceable without dismounting the probe.** The benefit is that all filters can therefore be replaced with a minimum of tools and in the shortest possible time.
The cleaning of the sample tube or the preliminary filter can be effected by extracting the filter from the probe.
The probe temperature is controlled by an ATEX-certified controller-limiter unit. with temperature alarm. The temperature sensors are PT100.
• Through a high flow **back-flush** inlet we can clean the filter and the inlet sample tube so less maintenance is necessary in high dust load applications.
The probe is delivered with valid ATEX-certificates for all electrical components.

- **Retractable sample tube, change pre-filter or sample tube without dismounting the probe**
- **Optional back-flush possibility and closing the sample gas outlet**
- **Very universal applicability**
- **Compact and modular design suited for most applications**
- **Reduce operator exposure to safety risks**
- **Easy mounting**
- **Easy maintenance**
- **Patented construction**

Chpt 1-2.1

Technical data

Gas Sample Probe Version	ASP 611	ASP 613
Integrated filter length	**150mm**	
Integrated back flush	option	
Protective cover	yes	
Electrical Terminal box	IP54	
Gas wetted Materials	Stainless steel 316	
Sealing materials	FPM Viton®	
Max. dust loading	1g/m³ (with back purge: 10g/m³)	
Max. sample temperature	+180°C	
Time before ready for use	Approx. 45 minutes	
Insitu pre-filter	Optional: 250 or 500mm stainless steel 2 or 20µ	
Sample pressure max.	0,5-6 bar abs.	
Ambient temperature	-20°C to +65°C	
Filter chamber volume	300cm³	
Filter element porosity	2µm SS316	
Thermostatic Control	0-180°C, 2x PT100	
Electronic Controller	Electronic controller	
Mounting controller	inside Ex-zone 1, 2, 21, 22	outside Ex-zone
Temperature alarm contact	<120°C, 1 change-over contact, 230V 1,5AAC, 0,5ADC	
Sample gas outlet	¼" NPT f	
Test gas connection (option)	¼" NPT f	
Back flush connection (Option)	¼" NPT f	
Power supply	230VAC/400W	
Electrical connections	3 x 1,5mm²	
Electrical equipment standard	EN60529	
Marking	Ⓔx II 2 G EEx d e ib IIC T3	
Mounting flange	DN65 PN6B, SS316 other connections optional or on request	
Weight	±20 kg	
Overall dimensions	~ 440 x 470 x 360mm (w x h x d)	

Dimensions

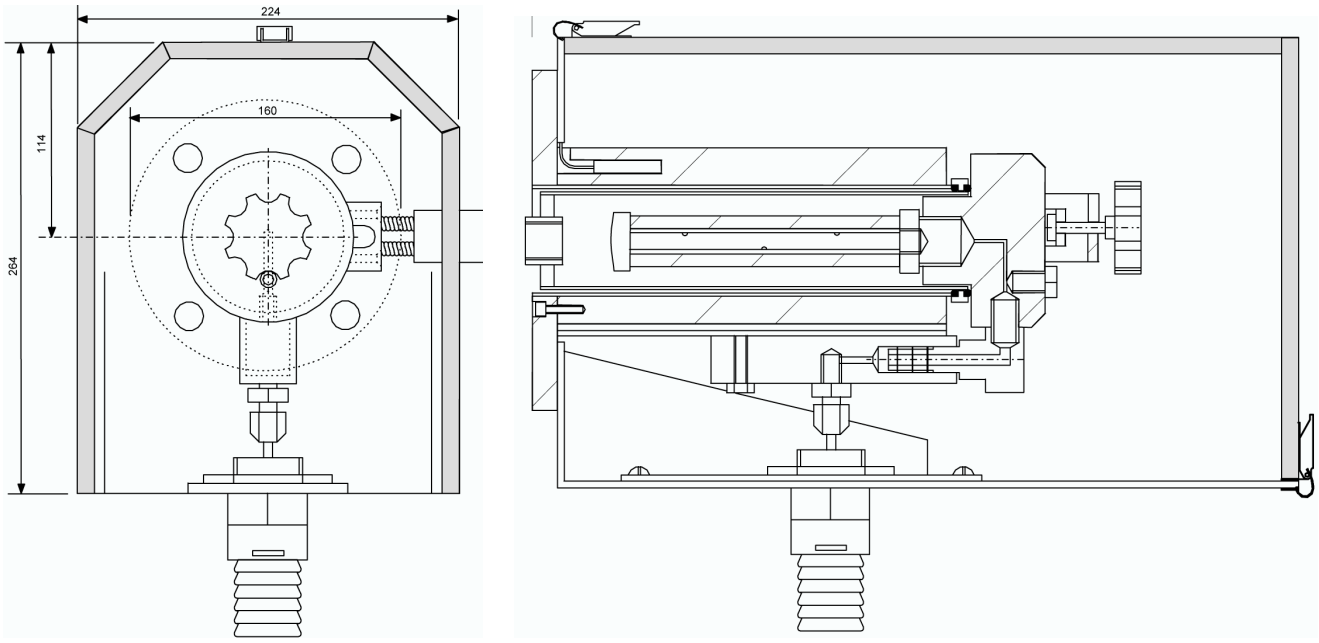

Figure 1 Sample probe type ASP 61x drawing

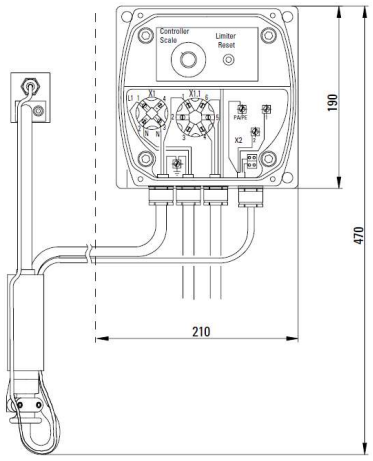

Figure 2 Sample probe type ASP 611 controller

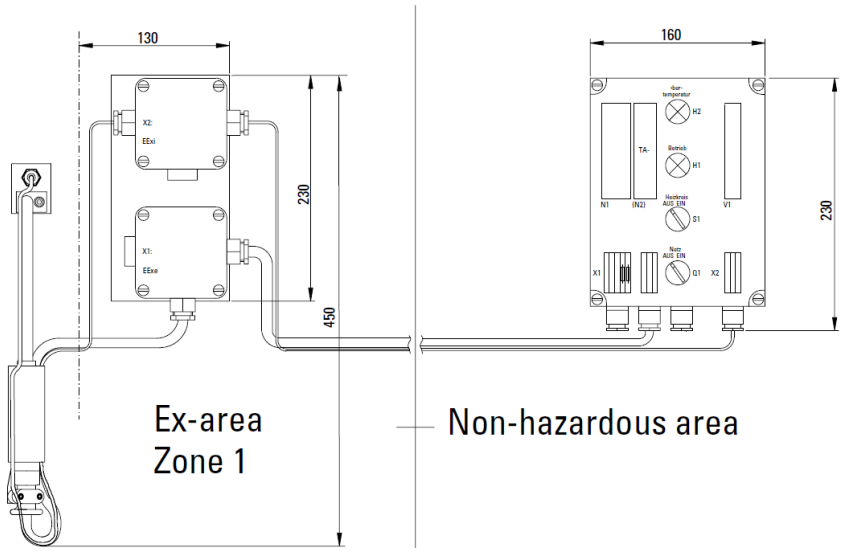

Figure 3 Sample probe type ASP 613 controller