



## APP - Portable Heated Gas Sample

**Description** The APP portable gas sampling probe is heated up to 180°C in order to prevent the sample from condensing by maintaining the sample temperature above acid gas dew point. It features a **150 mm long filter element**, suitable for most applications up to 1g of dust per cubic meter of emissions. Thanks to its design, the filter can be replaced or checked without the need for dismounting the probe. For applications where the dust load reaches 10 g/m<sup>3</sup>, a **blowback option** can be fitted. **Calibration** gas is injected directly into the probe through the calibration gas port accordingly to EN14181 (regulation related to calibration of emission monitoring systems) enabling calibration gas feeding via the probe's filter element. Both calibration and backflush port can be secured with a **high-flow check valve** APP200 is recommended.



Standard 150mm ceramic filter



Spun glass filter for Diesel application



APP sample probe

**Applications** The APP135 **spun glass cartridges** is a stainless steel cartridges filled in with glass-wool. It can be used instead of the **standard ceramic filter** when sampling from sources with high soot, tars or condensates content such as raw syngas, diesel exhaust, coal fired power station...The APP portable gas sample probe is specifically designed for mobile operation and short to medium term testing. The **light weight** and innovative design provides source testers with easy handling, safe and reliable operations as well as **easy maintenance** at a wide range of conditions.

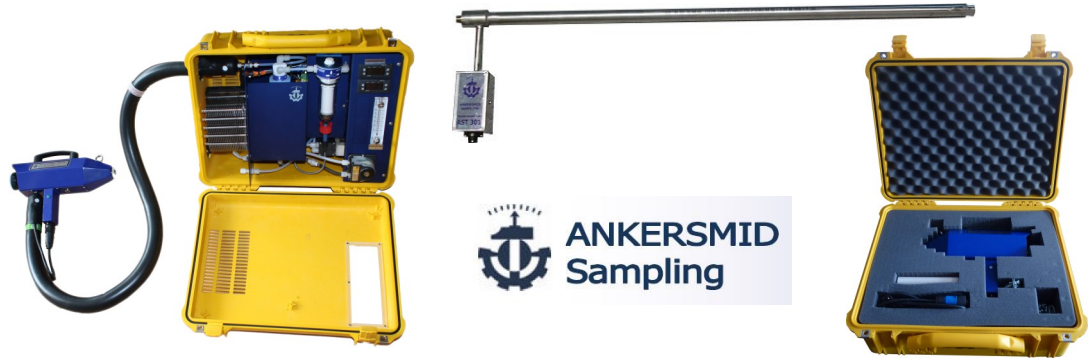
## APP - Key Features

- Compact design and universal applicability
- Integrated over temperature safety switch
- Test gas port according to EN14181
- Low temperature alarm contact
- Optional Backflush port for dust load up to 10g/m<sup>3</sup>
- Spun glass cartridge for diesel or similar sooty applications
- Universal mounting clamp for heated line
- Optional quick lock system
- 0-180°C operating temperature
- Low maintenance and ease of operation



# APP High Performance Source Testing Solutions

The portable gas sample probe APP can be used in combination with the portable gas conditioning system series APS303. Both devices can easily be associated with the sample heated line AHL205. The incorporated innovative quick lock system ensures efficient, fast and reliable operations. Suitable sample probe tubes are available in heated and unheated versions depending of the level of moisture and operating conditions.



## APP - Specifications

### CONSTRUCTION & ENVIRONMENT

<b>Dimensions</b>	Approx. 330 x 125 x 220 mm (L x W x H)
<b>Weight</b>	2,5 kg
<b>Gas wetted material</b>	Stainless steel 316L
<b>Integrated filter</b>	150mm
<b>Filter material</b>	Ceramic (other on request)
<b>Filter porosity</b>	2µm (other on request)
<b>Sealing material</b>	Viton
<b>Environment &amp; Protection</b>	IP40
<b>Ambient T°</b>	-20 to +80°C
<b>Relative humidity</b>	10 to 80%

### ELECTRICAL UTILITIES

<b>Power supply</b>	110 - 240 VAC 50 / 60 Hz
<b>Consumption</b>	450W
<b>Electrical connection</b>	Plug and socket connector 7 pin, with 4m connection cable

### SAMPLE

<b>Max sample temperature</b>	Up to 200C (consult if higher)
<b>Max. Sample pressure</b>	0.5 to 4 bar abs.
<b>Dust load</b>	1 g/m3 with standard filter (up to 10g/m3 with Backflush fitted)

### CONNECTIVITY, & ALARMS

<b>Sample gas outlet</b>	1/4" f NPT
<b>Test gas/Backflush connection</b>	1/4" f NPT
<b>Sample gas inlet</b>	G 3/8" f
<b>Alarms</b>	Low temperature alarm
<b>Safety features</b>	Over temperature safety switch-off

### OPTIONS

<b>Case</b>	Heavy duty ABS case with compartments for probe and accessories 53 x 43 x 21 cm ( W x H x D)
<b>Backflush</b>	Fitted for high dust load
<b>Heated line connection</b>	1/4" m NPT quick release connector
<b>Sample tube</b>	AST various lengths and material available Two versions : Heated and Unheated
<b>Insitu Pre-Filter</b>	Various porosity and material

### OPERATION

<b>method</b>	Short to medium term continuous sampling
<b>Warming up</b>	Approx. 15 to 30 min
<b>Calibration port</b>	Available as standard according to EN14181

