



APP100 Portable Heated Gas Sample

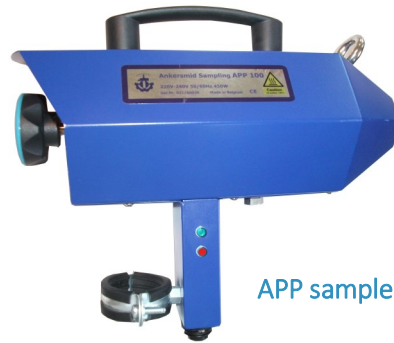
Description Due to various acid dew points depending on the type of applications the probe is heated up to **180°C**. A filter element of 150mm is integrated, suitable for most applications up to 1g of dust per cubic meter of emissions. Thanks to its design, the filter can be replaced or checked without the need of dismounting the probe. For applications where the dust load reaches 10 g/m³, a **blowback** option can be fitted. **Calibration** gas can be injected directly into the probe through the calibration gas port accordingly to **EN14181** (regulation related to calibration of emission monitoring systems) that enables calibration gas feeding via the probe's filter element. To complete this function the use of a high-flow check valve **APP200** is recommended.



Standard 150mm ceramic filter



Spun glass filter for Diesel application



APP sample probe

Applications

The **APP portable gas sample probe** is especially designed for portable applications where easy handling, safe and reliable operation as well as easy maintenance at a wide range of conditions are required. The low weight and innovative design guarantees a perfect operation for short and medium term mobile measurements.

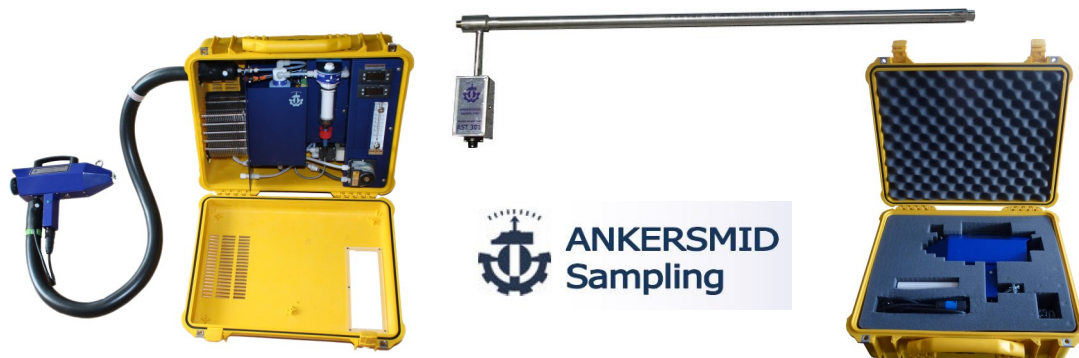
APP100 Key Features

- 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/m³
- 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



APP100 Portable Heated Gas Sample Probe

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.



APP100 Specifications

CONSTRUCTION & ENVIRONMENT

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

ELECTRICAL UTILITIES

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

SAMPLE

Max sample temperature	Up to 200C (consult if higher)
Max. Sample pressure	0.5 to 4 bar abs.
Dust load	1 g/m ³ with standard filter (up to 10g/m ³ with Backflush fitted)

CONNECTIVITY, & ALARMS

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

OPTIONS

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

OPERATION

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

