

## APP<sup>®</sup> Portable Heated Gas Sampling Probe

**Description** - To overcome various sample acid dew points function of the type of applications, the APP 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/m<sup>3</sup>, 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.

**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.

### APP<sup>®</sup> Sampling Gun

Tailored for stack  
testing



## ABYSS<sup>®</sup> Key Features

- 180°C operating temperature
- Integrated over temperature safety switch
- Low temperature alarm contact
- Test gas port according to EN14181 available as standard
- Optional Backflush port for dust load up to 10g/m<sup>3</sup>
- Spun glass cartridge for diesel generators, diesel exhaust or similar sooty applications
- Optional quick lock system for easy, fast and reliable connection of heated line
- Compact design and universal applicability, easy handling with mounting eye on housing (2m chain incl.)
- APP150 Portable heavy duty ABS case for safe transport
- Universal mounting clamp for heated line

# APP<sup>®</sup> Options and Accessories

- The portable **gas conditioning system** series **APS303** , heated line **AHL205** and the portable **gas sample probe APP** are designed to easily be associated allowing fast and reliable short term measurement on the field.
- PFA coated barrel for wet scrubber
- Heavy duty **ABS transport case**
- **Calibration and backflush** relief valve
- Filter unit for **diesel generators and other sooty applications**
- **Quick lock male connector**
- Suitable **sample tubes** are available in heated and unheated versions depending of the level of moisture and operating conditions



## APP<sup>®</sup> Key Features

### 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/m3 with standard filter (up to 10g/m3 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<br><br>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  |
| Temperature control   | Self-limiting heating cartridges with Power-ON indication (RED LED) and ready to use indication (GREEN LED) |
| Operating temperature | 0-180C  |
| Calibration port      | Available as standard according to EN14181  |

