

- Sampling Conditioning Systems ● Process Analytics
- System Integration ● Gas Generators ● FTIR-Analysers

conditioning systems

## CONDITIONING SYSTEMS

### Gas Sample Probe JES 300



#### FEATURES

- ◆ Rugged Construction
- ◆ Easy filter replacement
- ◆ Low maintenance
- ◆ Painted steel enclosure
- ◆ Calibration gas inlet
- ◆ Microprocessor based temperature controller
- ◆ Low temperature contact

#### GENERAL

The JES 300 Series of Heated Gas Sample Probe is designed for continuous use with extractive sampling systems even where the sample contains dust, aerosols, water vapour and high dew-point corrosive gases when must be kept above its dew-point to prevent corrosion and sample degradation either prior to hot analysis or sample conditioning. The JES 300 is available in several versions which may be custom configured to meet user's specific application. The JES 300 incorporates a non-corrosive heated, replaceable ceramic filter element with a filter porosity of 2 micron. The filter elements mounted in a stainless steel housing, electrically heated, use a microprocessor based self-optimising temperature controller. The filter housing is thermally insulated and enclosed within a weather proof case. An under temperature contact allows interface of the probe to sampling system to prevent premature sampling before probe reaches operating temperature. To attach the heated sample line on the probe head our Heated Sample Line Series JH will come with a movable PG42 fastening screw.

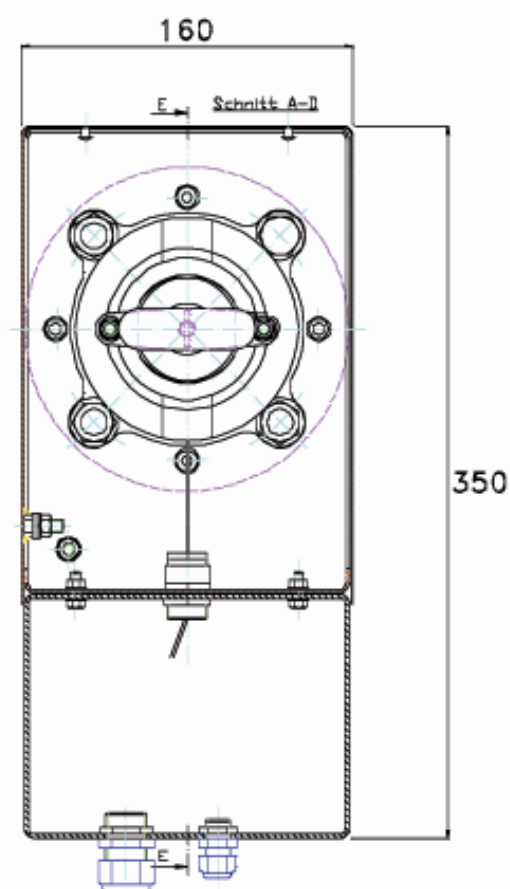
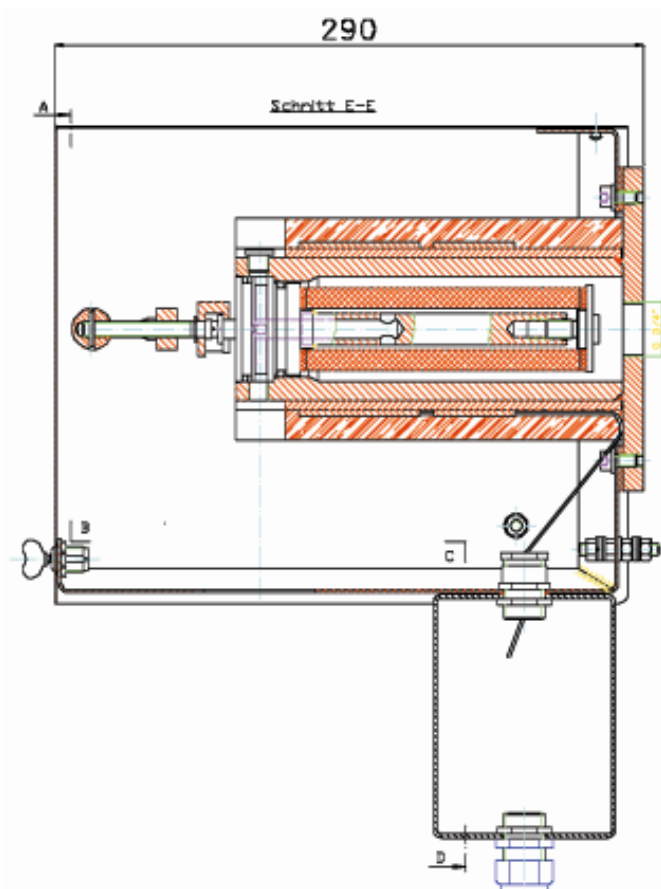
#### TECHNOLOGY

The complete unit, consisting of the heated filter head, temperature controller, mounting flange and probe assembly, can be mounted anywhere horizontally or vertically. It is designed for mounting directly to a standard DN65 PN6, Form B flange. The flange material is stainless steel. When mounted horizontally, the JES 300 should be inclined at an angle of 5°-15° to allow any condensate formed to drain away from the filter head. A broad range of different materials for In-Situ probe tubes, electrically heated In-Situ probe tube and large In-Situ - pre filters makes the JES 300 versatile in application.

#### FEATURES

An excess temperature limit switch protects against runaway and an alarm function for temperature failure. Easy filter replacement can be accomplished without any tools and without disconnecting the heated sample line.

## TECHNICAL DATA



### SPECIFICATIONS

Filter element	SiC; pore size 2-3µm; 40/20 x 135mm
Operating pressure	50 ... 150 kPa abs.
Mounting flange Option	DN 65, PN6, DIN 2573 SS316 ANSI flange 2 1/2"
Mounting angle	recommended 5°-15° incline to allow condensate drainage
Gas inlet connection	G3/4" female thread
Sample gas connection	1/8" NPT female thread
Test gas connection	1/8" NPT female thread
Material in contact with sample	SS 316L, SiC, Viton
Temperature adjustm. Option	40 ... 190°C 90 ... 320°C

### SPECIFICATIONS

Ambient temperature	-20°C ... +65°C
Heater element	approx. 500 Watt
Temperature sensor	Type K
Power supply Option	230VAC / 50Hz or 115VAC / 60Hz approx. 550VA
Junction box (mm)	160x120x90 (WxHxD)
Electrical connections	Terminal 2,5 mm <sup>2</sup>
Alarm contact	250VAC, DC; 0,2A
Protection class	IP65 for electronic
Weight	approx. 12kg
Dimension (mm)	160x360x290 (WxHxD)

Specification subject to change without notice.

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