JES-301 Heated Gas Sampling Probe







Gas Sampling Probes

Heated Sample Lines

Sample Gas Coolers

Condensate Treatment

Accessories

Gas Conditioning Systems

Sample Gas
Converters

APPLICATION

- Representative continuous gas sampling in processes containing dust and humidity
- · Extractive gas analysis
- · Emission (CEMS) and process monitoring
- · Removal of dust from the sample gas

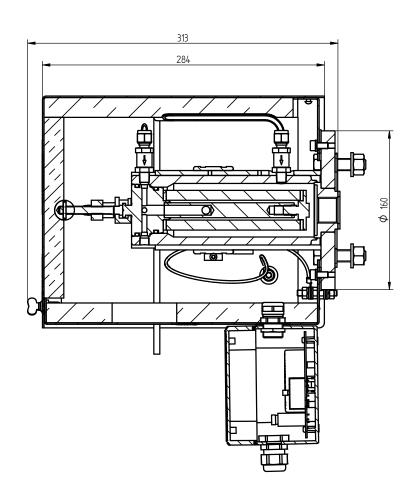
BENEFITS

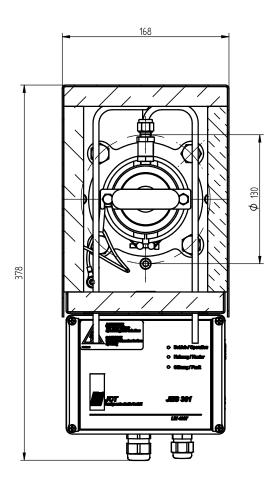
- No condensation or chemical reactions of sample gas
- · Convenient filter replacement
- · Low maintenance
- · Safe unattended operation
- · Easy start-up
- · Even for high dust concentrations
- · Reliable protection of the analyzer system

FEATURES

- · Homogeneous heating without cold spots
- · Large active filter surface
- · Filtration from outside to inside
- · Filter element change without tools
- · Different material of filter elements
- Electronic temperature controller including over temperature protection
- · Temperature status contact
- · Weather protection housing
- · Various options and upgrades
- · Wide range of accessories

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ORDER CODE

	Filter		Options			Power Supply and Flange			
Model	2 µm ceramic	0,2 µm ceramic coated	Back purge port *1	Calibration port *1	Temperature controller	Power supply 230 VAC Flange DN65/PN6	Power supply 230 VAC Flange 2" ANSI (Z)	Power supply 115 VAC (X) Flange DN65/PN6	Power supply 115 VAC (X) Flange 2" ANSI (Z)
JES-301	Χ				Χ	35.00210	35.00221	35.00310	35.00321
JES-301B		Χ	Χ		Χ	35.00212	35.00213	35.00312	35.00313
JES-301C	Χ			Χ	Χ	35.00214	35.00239	35.00314	35.00316
JES-301BC		Χ	Χ	Χ	Χ	35.00217	35.00231	35.00317	35.00318
JES-301H	Χ					35.00208	35.00332	35.00308	35.00309
JES-301BH		Χ	Χ			35.00220	35.00235	35.00328	35.00329
JES-301CH	Χ			Χ		35.00226	35.00236	35.00326	35.00327
JES-301BCH		Χ	Χ	Χ		35.00238	35.00237	35.00330	35.00331

Scope of delivery: sampling probe, mounting material, flange gasket, gasket for sampling pipe, operating manual *1...with non-return valve

TECHNICAL DATA

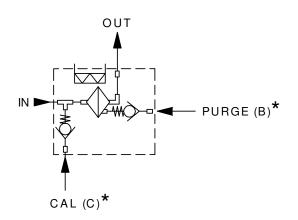
Model	JES-301							
Description	stationary gas sampling probe							
Operation								
Temperature	180 °C (ex works), adjustable 5° C to 200 °C							
Low temperature alarm / excess temperature limit	-30 K /+20 K fix to set point							
Operating pressure	max. 2 bara (max. 7 bara optional)							
Mounting position	5° to 15° incline (recommended), torsion angle max. 45°							
Heating-up time	40 min							
Ambient temperature	for start-up −20 °C to 60 °C for continuous operation −30 °C to 60 °C							
Construction								
Dimensions over all (W x H x D)	168 x 378 x 313 mm							
Dimensions connection box (W x H x D)	120 x 160 x 90 mm							
Filter element	2 μm ceramic or 0,2 μm ceramic coated							
Active filter surface	170 cm ²							
Mounting flange	DN 65, PN6; form A according to EN 1092-1; SS316L or 2" ANSI 150 lbs; according to ASME B16.5							
Sample gas inlet	G 3/4" female thread							
Sample gas outlet	1/8" NPT female thread							
Calibration gas connection (option)	pipe 6 mm, SS316							
Back purge connection (option)	pipe 6 mm, SS316							
Gas wetted materials	SS316L, ceramic, Viton®							
Protection class	connection box IP65, probe IP43							
Weight	12,5 kg							
Weather protection housing	SS304, thermal insulated, colour stainless steel natural							
Approvals / signs	CE							
Electrics								
Power supply	230 VAC 50 Hz or 115 VAC 60 Hz							
Power consumption	approx. 505 VA							
Temperature controller / sensor	electronic / PT100							

spring type terminals, clamping range 0,08 to 2,5 mm 2 230 VAC / 2 A, min. 5 VDC / 5 mA

Electrical connection

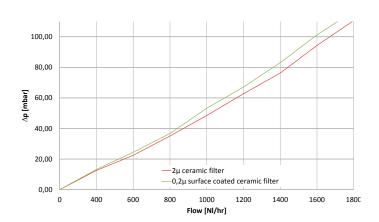
Switching capacity status contact (volt free)

GAS FLOW DIAGRAM



*... not included in all models

Pressure characteristics in dependence of the gas flow (for new filter element and 20 °C)



UPGRADE OPTIONS AND ACCESSORIES

Put together a sampling probe exactly according to your requirements by choosing additional moduls, e.g. solenoid valves, controllers and air accumulators.

Please refer to this seperate product data sheet for further information:

Upgrade Options for JES-301 Gas Sampling Probes

Filter elements in various materials

Dilution units

Back purge control valves

Ball valves for sample gas inlets and outlets

Air accumulators

High temperature versions

Temperature display for temperature controller

JCT Analysentechnik GmbH offers a wide range of accessories. Please refer to seperate data sheets for further information:

• JER Sampling Pipes and JHD Pre-Filters

Sampling pipes in various materials and lengths

In-Situ pre-filter in various materials

Extension pipes in various materials

• JES-301K Back Purge Control Unit

JES-301 Accessories

Flange adapters

Accessories for gas connections

Accessories for heated sample pipes









and **solutions** for



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Subject to change without notice page 4 PDS_E_JES301_v4.0