



JES-301W

Unheated 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
- Extended temperature range for extreme ambient conditions
- Extractive gas analysis
- Emission (CEMS) and process monitoring
- Removal of dust from the sample gas
- Suitable for safe area and EX area

BENEFITS

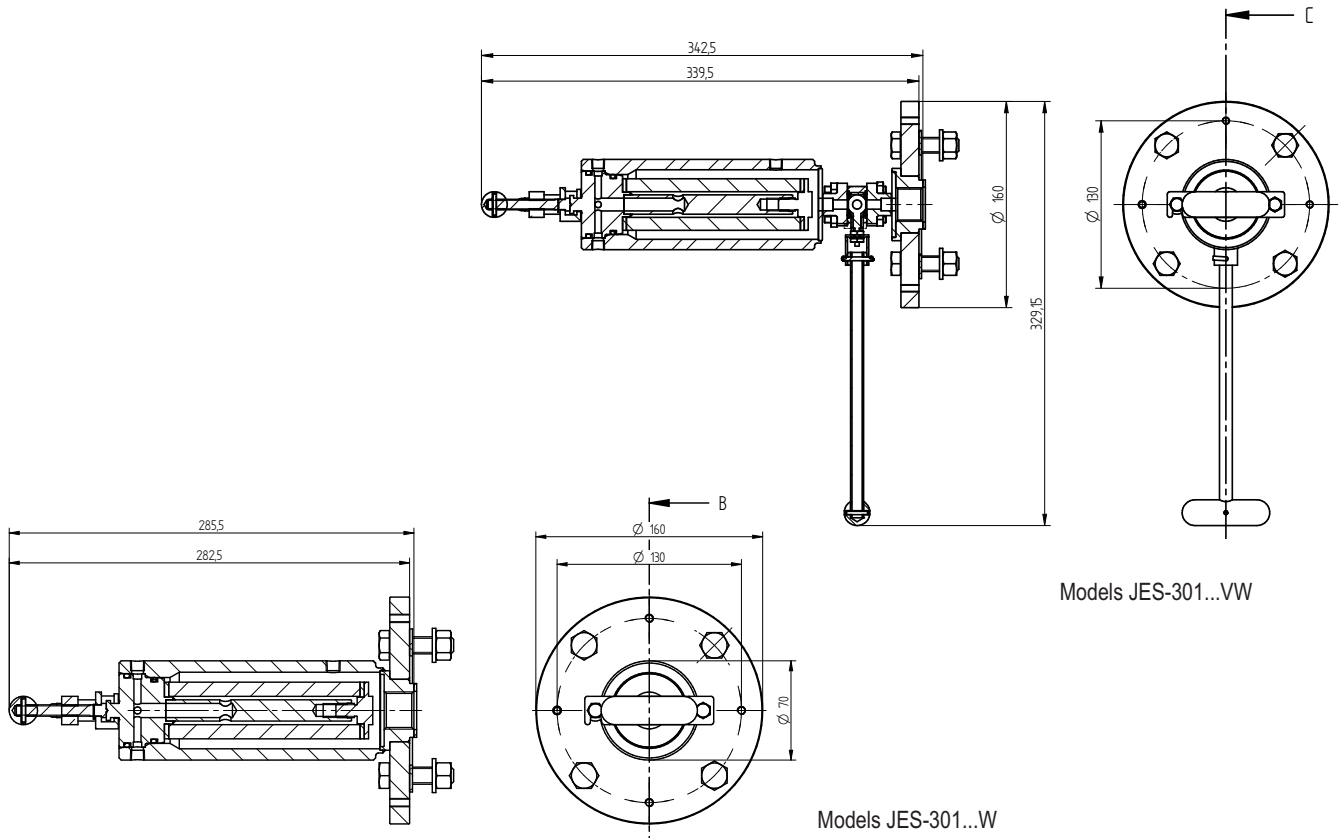
- Convenient filter replacement
- Low maintenance
- Safe unattended operation
- Easy start-up
- Even for high dust concentrations
- Reliable protection of the analyzer system

FEATURES

- Large active filter surface
- Filtration from outside to inside
- Filter element change without tools
- Different material of filter elements
- Weather protection housing (option)
- Various options and upgrades
- Wide range of accessories
- Full bore ball valve for process shut-off (option)
- Manual and actuator operation of ball valve (option)

DIMENSIONS

Dimensions in mm



ORDER CODE

Model	Filter		Options		Flange	
	2 µm ceramic	0,2 µm ceramic coated	Back purge port *1	Calibration port *1	DN65/PN6	2" ANSI (Z)
JES-301W	X				35.00005	35.00025
JES-301BW		X	X		35.00001	35.00024
JES-301CW	X			X	35.00006	35.00023
JES-301BCW		X	X	X	35.00002	35.00022
JES-301VW	X				35.00003	35.00026
JES-301BVW		X	X		35.00004	35.00021
JES-301CVW	X			X	35.00007	35.00019
JES-301BCVW		X	X	X	35.00017	35.00018

Scope of delivery: sampling probe, mounting material, flange gasket, gasket for sampling pipe, operating manual
 *1...without non-return valve

TECHNICAL DATA

Model
JES-301W

Description	unheated stationary gas sampling probe
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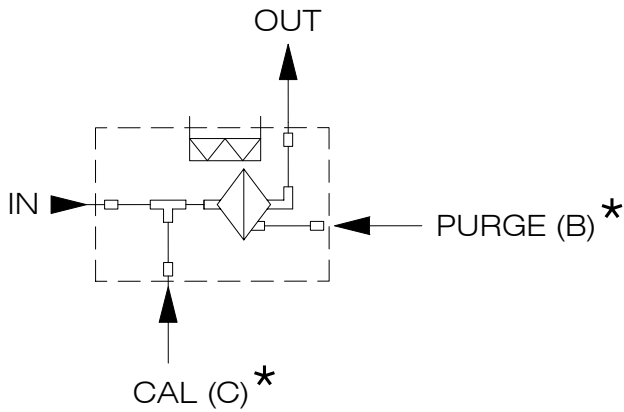
Operation

Temperature	max. 200 °C
Operating pressure	max. 2 bara (max. 7 bara optional)
Mounting position	5° to 15° incline (recommended), torsion angle max. 45°
Ambient temperature	-40 °C to 80 °C

Construction

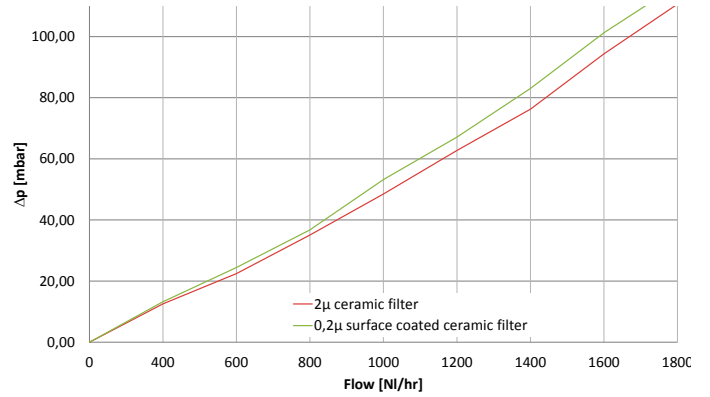
Dimensions over all (W x H x D)	160 x 160 x 286 mm
Dimensions over all with process shut-off valve (W x H x D)	160 x 330 x 343 mm
Filter element	2 µm ceramic or 0,2 µm ceramic coated
Active filter surface	170 cm ²
Mounting flange	DN 65, PN6; form A according to EN 1092-1; SS316L or 2" ANSI 150 lbs; according to ASME B16.5
Process shut-off valve (option)	temperature max. 200 °C at 7 bar
Sample gas inlet	G 3/4" female thread
Sample gas outlet	1/8" NPT female thread
Calibration gas connection (option)	1/8" NPT female thread
Back purge connection (option)	1/8" NPT female thread
Gas wetted materials	SS316L, ceramic, Viton®
Weight	7 kg
Approvals / Signs	CE

GAS FLOW DIAGRAM



*... not included in all models

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



ORDER CODES FOR UPGRADE OPTIONS AND ACCESSORIES

Upgrade Options

35.00682	High temperature version up to 315 °C for DN 65, PN 6 flange
35.00683	High temperature version up to 315 °C for 2" ANSI flange

Stainless Steel Housing, SS304

35.00249	Housing for JES-301VW sampling probes
35.00259	Housing for JES-301W sampling probes

JCT Analysentechnik GmbH offers a wide range of accessories. Please refer to separate 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**

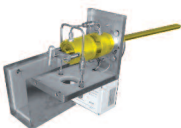
- **JES-301 Accessories**

Flange adapters

Accessories for gas connections

Accessories for heated sample pipes

Gas Sampling Probes



Heated Sample Lines



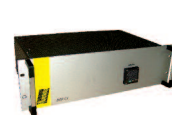
Sample Gas Coolers



Gas Conditioning Systems



NOx Converter



and solutions for

