



JES-301L

Gas Sampling Probe



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
- Easy start-up
- Reliable protection of the analyzer system

FEATURES

- Homogeneous heating without cold spots
- Filtration from outside to inside
- Filter element change without tools
- Self-limiting PTC heater
- Temperature status contact
- Weather protection housing
- Wide range of accessories
- Calibration port (option)



TECHNICAL DATA

MODEL

JES-301L

Description	stationary gas sampling probe
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OPERATION

Operating temperature	approx. 180 °C [356 °F]
Low temperature threshold	145 °C [293 °F]
Operating pressure	max. 2 bara
Mounting position	5° to 15° incline (recommended), torsion angle max. 45°
Heating-up time	30 min
Ambient temperature	-20° to 60 °C [-4° to 140 °F]
Dust load	max. 1 g/m ³ , flow dependent

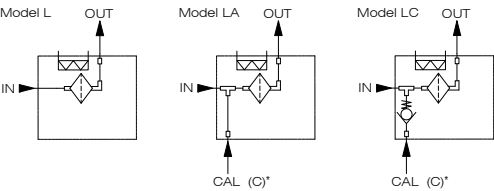
CONSTRUCTION

Dimensions overall (W x H x D)	168 x 331 x 249 mm [6.6 x 13 x 9.8 in]
Filter element	2 µm ceramic, optional: 0.2 µm ceramic, PTFE or pyrex wool
Active filter surface	84 cm ² [13 in ²]
Mounting flange	DN65, PN6; form A according to EN1092-1; 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 (0.24 in), SS316
Sample gas wetted materials	SS316L, ceramic, Viton®
Dead volume	62 cm ³ [0.06 in ³]
Protection class	IP43 according to EN60529
Weight	9 kg [20 lbs]
Weather protection housing	SS304, thermal insulated, colour stainless steel natural
Approvals / Signs	CE

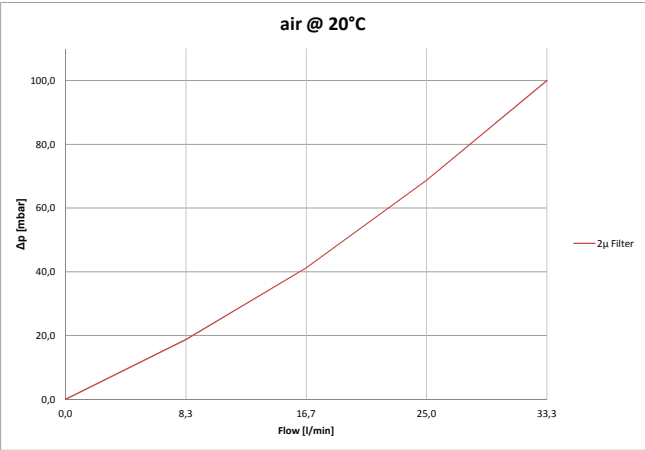
ELECTRICS

Power supply	115 to 230 VAC 50/60 Hz
Power consumption	415 W @ 25 °C [77 °F]
Heater element	PTC self-limited
Electrical connection	spring type terminals, clamping range 0.08 to 2.5 mm ²
Fusing	external on installation site fuse characteristic C: 230 VAC 6 A; 115 VAC 10 A
Protection class junction box	IP65 according to EN60529
Switching capacity status contact (volt-free)	min. 24 VDAC / 50 mA, max. 230 VAC / 5A cosP 0.95
Status contact function	normally open contact, failsafe operation

GAS FLOW DIAGRAM



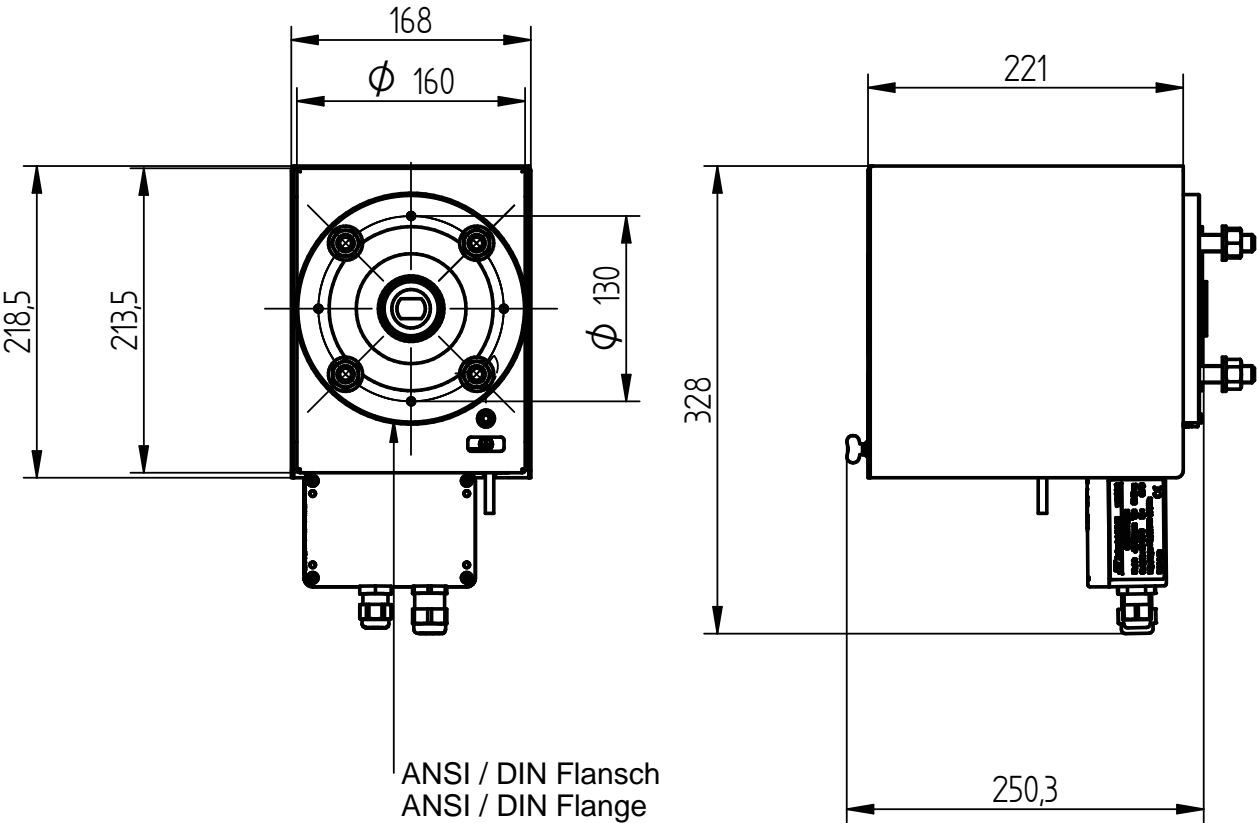
*... not included in all models



Pressure characteristics in dependence of the gas flow
(for new filter element and 20 °C [68 °F])

DIMENSIONS

dimensions in mm



ORDER CODES

Model	Filter	Options				Flange	
	2 µm ceramic	Calibration port with non-return valve	Calibration port without non-return valve	Weather protection housing	Power supply 115 VAC to 230 VAC 50/60 Hz	DN65/PN6	2" ANSI (Z)
JES-301L	x			x	x	35.03000	35.03030
JES-301LC	x	x		x	x	35.03010	35.03040
JES-301LA	x		x	x	x	35.03020	35.03050

Scope of delivery: sampling probe, mounting material, flange gasket, gasket for sampling pipe, operating manual

ACCESSORIES

Sampling Pipes

35.03060	Sampling pipe for JES-301L, SS316, length 1,000 mm, 12 x 1.5 mm, temp. max. 600 °C, G 3/4"o
35.03061	Sampling pipe for JES-301L, SS316, length 2,000 mm, 12 x 1.5 mm, temp. max. 600 °C, G 3/4"o

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

JES-301 Accessories

Flange adapters

Accessories for gas connections

Filter Upgrades

35.93100	JES-301L & JBF with ceramic 2 µ filter element
35.93101	JES-301L & JBF with ceramic 0.2 µ filter element
35.93103	JES-301L with PTFE filter element
35.93105	JES-301L with pyrex wool filter element