Sample Gas Conditioning You Can Trust

JES-360 Gas Sampling Probe for Pre-Filter Back Flush



APPLICATION

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

BENEFITS

- · Cost-optimized solutions
- 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
- · Long filter lifetime

FEATURES

- Modular design for custom-tailored applications
- Highly efficient filter cleaning
- 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
- Integrated back flush / back purge controller (option)





Gas Sampling Probes

Heated Sample Lines

> Sample Gas Coolers

Condensate Treatment

Accessories

Gas Conditioning Systems

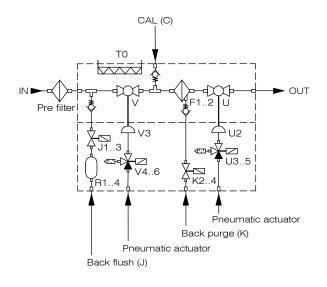
> Sample Gas Converters

TECHNICAL DATA

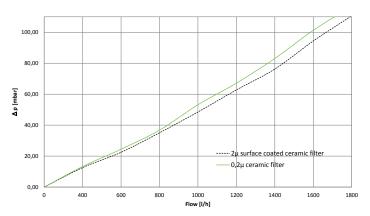
Model	JES-360										
Description	stationary gas sampling probe for pre-filter back flush										
Operation											
Temperature	180 °C (ex works), adjustable 5 °C to 200 °C										
Status limiter set values	-30 K /+20 K fixed to set point										
Operating pressure	max. 2 bara (max. 7 bara optional)										
Mounting position	5° to 15° incline (recommended), torsion angle max. 45°										
Heating-up time	< 1 h										
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)	375 x 418 x 449 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 surface 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 (feature C)	pipe 6 mm, SS316										
Back purge connection (feature K)	pipe 6 mm, SS316										
Connection pre-filter back flush (feature J)	NPT 3/8" female thread										
Gas wetted materials	SS316L, ceramic, Viton®										
Protection class	connection box IP65, probe IP43										
Weight	approx. 15 kg, depending on options										
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. 805 VA										
Temperature controller / Sensor	electronic / PT100 (IEC-751)										
Electrical connection	spring type terminals, clamping range 0,08 to 2,5 mm ²										
Switching capacity status contact (volt free)	230 VAC / 2 A, min. 5 VDC / 5 mA										

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

This flow chart inlcudes all possible variants

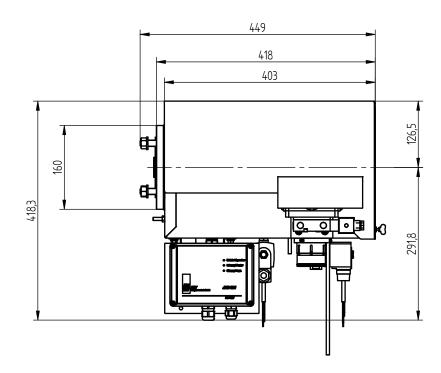


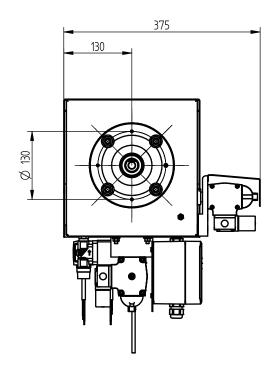
Pressure characteristics in dependence of the gas flow (for new filter element and 20 $^\circ\text{C}$)



DIMENSIONS

Dimensions in mm





ORDER CODE

includes weather protection housing temperature controller 180 °C (adjustable) Available Features Z1 Flange DN65/PN6 FF Z1 2"ANSI RF Z2 Filter 2 µm ceramic surface coated 2 Power supply 230 VAC 50/60 Hz with temperature controller 2 230 VAC 50/60 Hz with temperature controller 2 2 230 VAC 50/60 Hz with temperature controller 2 2 230 VAC 50/60 Hz with temperature controller 2 2 230 VAC 50/60 Hz with temperature controller 2 2 230 VAC 50/60 Hz with temperature controller 2 2 230 VAC 50/60 Hz with junction box 1 1 115 VAC 50/60 Hz with junction box 1 1 Process shut-off ball valve without shut-off ball valve and without pre-filter back flush 1 without shut-off ball valve and pilot valve 24 VDC 1 1 Back purge valve / Port sample probe filter without 1 1 back purge port with non-return valve 230 VAC 1 1 back purge port with non-return valve 230 VAC 50/60 Hz 1 1	F1 F2	X1 X2 X3 X4	V0 V1 V2 V3 V4 V5 V6 V7	K0 K1 K2					
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with electric actuator 230 VAC						U5			
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air accumulator 2 l						1	R1		
air accumulator 5 l						1	R2		
air accumulator heated 2 I						1	R3		
air accumulator heated 5 l						1	R4		
Mounting hole for mounting clamp for heated sample line 35-50 mm							N	/11	
for heated sample line 58-61 mm							M	2	
Connection ports inch									A1
metric									A2
Additional Options									
Others calibration port with non-return valve									
with back flush / back purge controller									
· •		\checkmark	\checkmark	\checkmark	\mathbf{V}	\downarrow ,	ψ,	\checkmark	V

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

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

