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





- Representative continuous gas sampling in processes containing high dust and humidity
- Installation in Ex-zone 1, 2 or 21, 22
- · Hazardous gases
- · Pressurized processes
- · 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
- Self-limiting heater for T3 or T4
- · Temperature status contact
- · Weather protection housing
- Various options and upgrades
- · Wide range of accessories





Gas Sampling Probes

Heated Sample Lines

Sample Gas Coolers

Condensate Treatment

Accessories

Gas Conditioning Systems

Sample Gas
Converters

www.jct.at

TECHNICAL DATA

stationary gas sampling probe for pre-filter back flush for Ex-zone 1, 2, 21 or 22 $\,$

Description

	Operation	
Temperature (feature S)	temperature class T3: 200 °C, T4: 135 °C	
Low temperature status contact (feature O)	temperature class T3: 130 °C, T4: 90 °C	
Operating pressure	max. 2 bara (max. 7 bara optional)	
Mounting position	5° to 15° incline (recommended), torsion angle max. 15°	
Heating-up time	<1 h	
	for options S0, S2: 0 °C to 55 °C for options S1, S3: -20 °C to 55 °C	

Construction

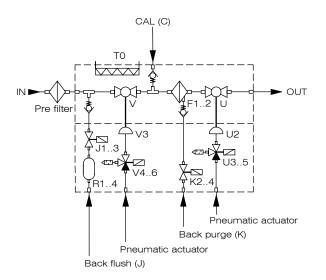
Dimensions over all (W x H x D)	375 x 418 x 449 mm
Dimensions connection box (W x H x D)	120 x 160 x 90 mm
Filter element	2 μm ceramic or 0,2 μm ceramic surface coated
Active filter surface	170 cm ²
Mounting flange	DN 65, PN6; form A according to EN 1092-1; SS316L or 2" ANSI 150 lbs; according to ASME 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
Type of protection	heating: 😉 II 2 G Ex db IIC T4, T3 😉 II 2 D Ex tbIIIC T135°C, T200°C connection box: 😉 II 2 G Ex em II T6/T5/T4 😉 II 2 D Ex tD A21 IP66 T80°C, T95°C
Approvals / Signs	heating: PTB 02 ATEX 1116X ; IECEx PTB 07.0055X connection box: PTB 01 ATEX 1016 ; LCIE 02 ATEX 6240 ; IECEx PTB 06.0046 / CE

Electrics

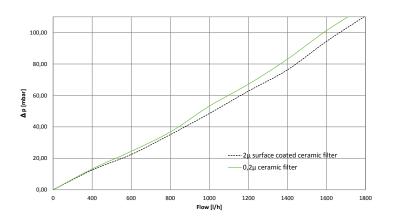
Power supply	115 to 230 VAC 50/60 Hz				
Power consumption	approx. 150 to 300 VA				

FLOW CHART

This flow chart inlcudes all possible options.

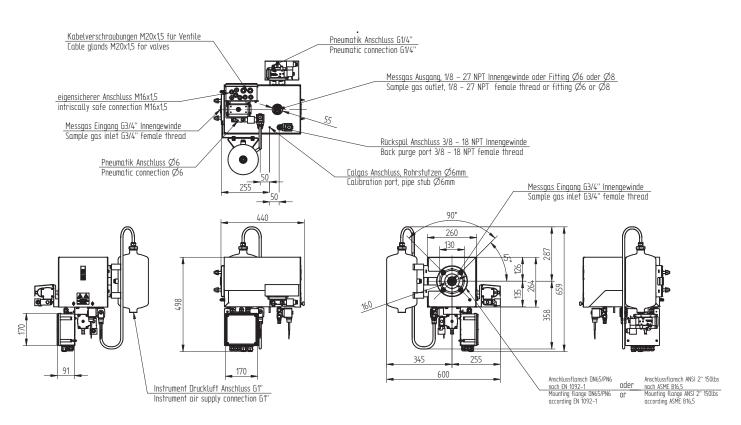


Pressure characteristics in dependence of the gas flow (for new filter element and $20\,^{\circ}$ C)



DIMENSIONS

Dimensions in mm



ORDER CODE

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

Basic model Pre- filter back flush with non return valve (not for option V0)

includes Weather protection housing

Self-limiting heater

Available Features

Available Features Flange	DN65/PN6	Z	1									
	2" ANSI	Z										
Filter	2 μm ceramic		F1									
	0,2 µm ceramic surface coated		F2									
Process shut off ball valve	without shut off ball valve and without pre-filter back flush		П	V0								
	without shut off ball valve		т	V1								
	with manual operation		T	V2								
	with pneumatic actuator			V3								
	with pneumatic actuator and pilot valve 24 VDC ATEX		П	V8								
	with pneumatic actuator and pilot valve 115 VAC ATEX			V9								
	with pneumatic actuator and pilot valve 230 VAC ATEX			V10								
leating (ATEX)	Temperature class T3, 1 heater		П		S0							
	Temperature class T3, 2 heaters		Т		S1							
	Temperature class T4, 1 heater				S2							
	Temperature class T4, 2 heaters				S3							
Back purge valve/port sample probe filter	without		П		П	KO						
2. 4. 3	back purge port with non return valve					K1						
	ATEX 24 VDC		Ш			K5						
	ATEX 115 VAC 50/60Hz		П			K6						
	ATEX 230 VAC 50/60Hz					K7						
Pre filter Back Flush valve	without						J0					
	ATEX 24 VDC						J4					
	ATEX 115 VAC 50/60Hz						J5					
	ATEX 230 VAC 50/60Hz						J6					
Isolation ball valve probe outlet	without		П					JO				
	with manual operation		П				U	J1				
	with pneumatic actuator						U	J2				
	with pneumatic actuator and pilot valve 24 VDC ATEX		Т				U	J7				
	with pneumatic actuator and pilot valve 115 VAC ATEX						U	J8				
	with pneumatic actuator and pilot valve 230 VAC ATEX						U	J9				
Air accumulator	without							R0)			
	air accumulator 2l							R1				
	air accumulator 5l							R2				
Fitting aperture for heated sample line	for mounting clamp diameter 35-50mm		П				П		M	11		
	for mounting clamp diameter 58-61mm								M	2		
Connection ports	inch									Α	1	
	metric									Α	2	
Additional Options												
Others	calibration port with non return valve										С	
	low temperature status contact										0	
		1	/ \	\downarrow	\mathbf{V}	\downarrow	₩,	$\downarrow \downarrow$			/ \	,
Order code	JES-36	0Ex. Z	F	ν	S	K	j l	JR	M	I A		

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

