# JES-370 DENOX Gas Sampling Probe







# **Gas Sampling Probes**

Heated Sample Lines

Sample Gas Coolers

**Condensate Treatment** 

Accessories

Gas Conditioning Systems

Sample Gas
Converters

#### **APPLICATION**

- · Extractive gas analysis
- Continuous gas sampling e.g. downstream DENOx plants (SCR)
- Removal of dust and other interfering solids e.g. ammonia salts from the sample gas flow
- · Outdoor and indoor installation

#### **BENEFITS**

- · Minimum wash out effects
- · Easy start-up
- · Fast operational readiness
- · Very long service life
- · Convenient element replacement
- · Low maintenance
- · Very efficient back purging

#### **FEATURES**

- Homogeneous heating of the sampling probe up to 315 °C without cold spots
- · No clogging of probe or connected line
- Self cleaning effect due to dissolving of ammonia salts in accumulated condensate
- Weather protection housing for outdoor installation
- ABS filter with freeze protection or heater (optionally)
- Large active filter surface (170 cm²)
- Electronic temperature controller
- · Filtration from outside to inside
- · Temperature status contact
- · Wide range of accessories
- Integrated purge controller (optionally)

# TECHNICAL DATA

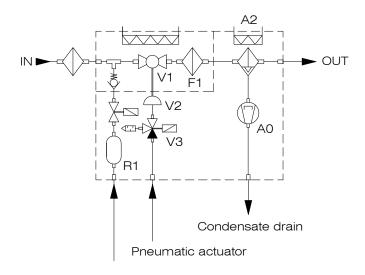
# **Operational data**

Filter element Option	ceramic, pore size 2 µm 40/20 x 135 mm surface coated 0,2 µm				
Operating pressure	max. 200 kPa abs.				
Sample gas wetted parts	SS316, ceramic; Perlast <sup>®</sup>				
Temperature adjustment range	5°C to 315°C				
Factory setting	280 °C				
Ready for operation	approx. 45 min				
Permissible ambient temperature with freeze protection with heated ABS filter	5 °C to +55 °C −5 °C to +55 °C −10 °C to +55 °C				
Operating temperature heated air accumulator	+100 °C +/- 5 °C				
Control pressure for pneumatic actuator	5 to 10 barg				
Flow rate (back purging)	approx. 90 Nm³/h at 4 bar, 160 Nm³/h at 7 bar				
Air for back purge	instrument air according to ISO 8573-1 Class 1.2.1				
Protection class	Electronic: IP 65, Probe: IP 43				

# Construction

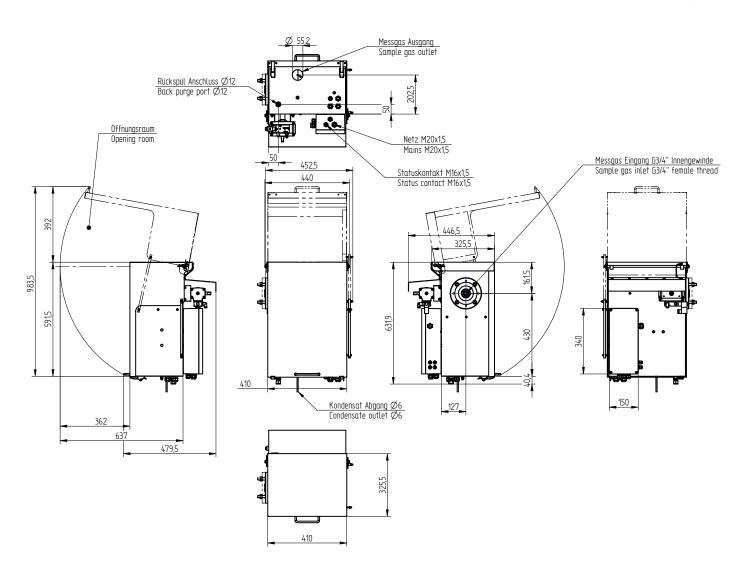
Mounting flange Option	DN 65, PN 6, form A according to EN 1092-1; SS316Ti 2" ANSI; 150lbs., hole pattern according to ASME B16.5				
Mounting angle	range 5° to 10° with respect to the horizontal, sloping down				
Mounting position	torsion angle max. 10°				
Dimension over all (WxHxD)	696 x 613 x 443 mm				
Weight	approx. 30 kg				
Housing material	SS304, brush-finished				
Sample gas inlet	G 3/4" female thread				
Sample gas outlet	PVDF hose fitting DN 4/6 mm				
Calibration port (optional)	6 mm bulkhead union, SS316				
Connection condensate drain (option)	PVDF hose fitting DN 4/6 mm				
Back purge port	12 mm bulkhead union, SS316				
Back purge gas wetted materials	SS316, brass, EPDM				
Temperature sensor	PT100 (IEC-751)				
Heater element	800 W				
Power consumption	approx . 810 VA				
Freeze protection / ABS heater (option)	125 / 250 W				
Heating air accumulator (option)	200 W				
Power supply	230 VAC/50 Hz or 115 VAC/60 Hz				
Electrical connection	spring type terminal , clamping range 0,08 to 2,5 mm²				
Switching alarm relay of back purge controller	Typ. 230 VAC/2 A/min. 5 VADC/5 mA				
Approval / Sign	CE				

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



# **DIMENSIONS**

Dimensions in mm



# **ORDER CODE**

**Basic model** ABS glass separator filter includes Weather protection housing

Temperature controller 315 °C (adjustable)

Pre-filter back purge with cutoff valve & non return valve (not for option V0)

#### **Available Features**

Flange	DN65/PN6	<b>Z1</b>				
	2" ANSI	Z2				
Filter	2 μm ceramic	F:	1			
	0,2 µm ceramic surface coated	F2	2			
Power supply	230 VAC 50/60Hz		X1			
	115 VAC 50/60Hz		X2			
Process shut-off ball valve	without shut-off ball valve and without pre-filter back purge			V0		
	with manual operation			<b>V1</b>		
	with pneumatic actuator			V2		
	with pneumatic actuator and pilot valve			V3		
	with electric actuator 230 VAC			V4		
ABS heater	without ABS heater, with condensate pump JSR-25			F	)	
	freeze protection for (ABS) glass separator filter with JSR-25			F'	1	
	heater for (ABS) glass separator filter without JSR-25			F2	2	
Air accumulator	without air accumulator				R0	
	air accumulator 5 l				R1	
	heated air accumulator tank 5 l with thermostat controller				R2	
Additional Options						
Others	process controller for pre-filter back purge					4
	calibration port with non-return valve					5
	calibration port with non-return valve & 230 VAC cut-off valve					6
	calibration port with non-return valve & 115 VAC cut-off valve					7
	calibration port with non-return valve & 240 VDC cut-off valve					8
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#### **ACCESSORIES**

**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-301 Accessories

Flange adapters

Accessories for gas connections

Accessories for heated sample lines











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