Sample Gas Conditioning You Can Trust

JH3EX Heated Sample Line







Gas Sampling Probes

Heated Sample Lines

Sample Gas Coolers

Condensate Treatment

Accessories

Gas Conditioning Systems

Sample Gas
Converters

APPLICATION

- · Extractive gas analysis
- · Emission and process monitoring
- Installation in zone 1, 2 or 21, 22
- Transport of sample gas from sample point to analysis system
- · Remains steadly/safely above acid dew point
- Protection against measured value falsification and frost
- · Indoor and outdoor use

BENEFITS

- · No condensate formation, no freezing
- · Resilient external protection
- · Excellent insulation
- · Optimal heat deployment
- · Customer specific executions
- Long lifetime
- · Kink protection

FEATURES

- Operating temperature regulated up to 180 °C
- Antistatic external jacket of corrugated polyamide PA12
- · Heat insulation with thermo fleece
- 2 x Ex-Pt100 temperature sensors
- · Ready to use
- Second core for e.g. calibration gas as option
- · Inner core reinforced with stainless steel braid

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TECHNICAL DATA

Model JH3EX

Description	ATEX approved regulated heated sample line (requires temperature controller)								
External jacket	corrugated polyamide 12 jacket, black, anti-static								
Sample gas core	fixed, interchangeable on request								
Area of application	mobile and fixed installation indoor and outdoor								
Operation data									
Operating temperature	max. 180 °C								
Operating pressure at 180 °C	atmospheric option pressure hose: - PFTE / PFA core: DN 4/6 mm 4 bara; DN 6/8 mm 3 bara; DN 8/10 mm 2 bara, 1/4" OD 5 bara, 3/8" OD 4 bara - SS316 core, all diameters: 10 bara								
Ambient temperature*	−40 °C to +50 °C								
Construction									
Material inner core	PTFE, PFA, SS316								
Heating element	ATEX certified spiraled line heater								
Temperature sensors**	2x ATEX certified Ex-Pt100, 3-wire								
Thermal insulation	multi-layered thermo fleece								
End configuration	silicone caps (see table below), sample gas core 100 mm protruded								
Maximum sample line length* (for one heating circuit)	115 V: DN 4/6 and 6/8 mm – 11 m, DN 8/10 mm – 10 m 230 V: DN 4/6 and 6/8 mm – 25 m, DN 8/10 mm – 22 m 400 V: DN 6/8 mm – 40 m, DN 8/10 mm – 36 m (only for sample gas core 6/8 mm or bigger)								
Diameter sample line outside	63 mm								
Minimum bending radius	300 mm								
Dimensions of silicone caps	L = 110 mm, \varnothing 69 mm or 61 mm with taper at probe side								
Type of protection	 								
Protection class	Electric components: IP65 Mechanic components: IP54								
Approvals / Sign	CE / ATEX, TRCU on request								
Electrics									
Power supply	115 VAC 50/60 Hz or 230 VAC 50/60 Hz or 400 VAC 50/60 Hz, 2-phase connection								
Power consumption	DN 4/6 mm, DN 6/8 mm: 100 W/m. DN 8/10 mm: 110 W/m								
Connection cable	1,5 m, PTFE-insulated								

End configuration of sample line

Dimensions in mm

		with electrical connection (side 1 – cabinet side)					
Н	110	К	silicone cap				
М	Tapering at probe side for use with JES-family sample probes. Requires mounting hole for 50 to 61 mm mounting clamp with JES probe.	L	silicone cap				

ORDER CODE

JH3EX

2 x temperature sensor Ex-Pt100 Jacket made of corrugated PA12 Sample gas core 100 mm protruded Line length without protrusion in dm (e.g.: 10 m = 100; 4.5 m = 045) Diameter DN 4/6 mm Diameter DN 8/10 mm Outer diameter 1/4* Outer diameter 3/8* PTFE core PFA core SS316 core Power supply 115 VAC / 50/60 Hz Power supply 230 VAC / 50/60 Hz Power supply 300 VAC / 50/60 Hz End configuration side 2 type H (without electrical connection) End configuration side 1 type K (with electrical connection) End configuration side 1 type L (with electrical connection) Without calibration core Calibration core DN 4/6 mm Customized version (detailed description needed)	Order code	JH3EX.	9	4	0								
Jacket made of corrugated PA12			V	V	V	V	V	V	V	V	V	V	\
Jacket made of corrugated PA12	Customized version (detailed description needed)												XY
Jacket made of corrugated PA12	Calibration core DN 4/6 mm											4	
Jacket made of corrugated PA12	Without calibration core										T	0	
Jacket made of corrugated PA12	End configuration side 1 type L (with electrical connection)										L		
Jacket made of corrugated PA12	End configuration side 1 type K (with electrical connection)										K		
Jacket made of corrugated PA12 4 Sample gas core 100 mm protruded 0 Line length without protrusion in dm (e.g.: 10 m = 100; 4.5 m = 045) XXX Diameter DN 4/6 mm 4 Diameter DN 8/10 mm 6 Diameter DN 8/10 mm 8 Outer diameter 1/4" 5 Outer diameter 3/8" 7 PTFE core PFA PS316 core PFA Power supply 115 VAC / 50/60 Hz 1 Power supply 230 VAC / 50/60 Hz 2 Power supply 400 VAC / 50/60 Hz 4	End configuration side 2 type M (with tapering for use with JES-family probe	es)								M			
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2 x temperature sensor Ex-Pt100 9	Jacket made of corrugated PA12			4									
	2 x temperature sensor Ex-Pt100		9										

ORDER CODE

Accessories Part Number Universal mounting clamp for mounting at gas sample probes series JES. 35.00981 Requires mounting hole for 50 to 61 mm mounting clamp with JES probe. Ex-temperature controller up to 16 A with LED indicator, 230 VAC, 50 Hz 89.01000 Ex-temperature controller up to 16 A with display, 230 VAC, 50 Hz 89.01010 Ex-temperature limiter up to 16 A with LED indicator, 230 VAC, 50 Hz 89.01020 Ex-temperature limiter up to 16 A with display, 230 VAC, 50 Hz 89.01030 Handheld controller for 89.01000 & 89.01020 for Ex zone 89.01040











and **solutions** for

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