

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

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, Ø 69 mm or 61 mm with taper at probe side						
Type of protection	 II 2G Ex 60079-30-1 eb IIC T3 - T6 Gb II 2D Ex 60079-30-1 tb IIIC T200 °C - T85 °C Db IP65 						
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 mn	
	but electrical connectionwith electrical connection2 - probe side)(side 1 - cabinet side)			
н		К	silicone cap	
м	Tapering at probe side for use with JES-family sample probes. Requires mounting clamp with JES probe.	L	silicone cap	

ORDER CODE

JH3EX

Order code	IH3EX.	9	4	0	T	Y	¥	T	V	v	۲	Y
Customized version (detailed description needed)		V			¥	V		¥		¥		XY
Calibration core DN 4/6 mm											4	
Without calibration core											0	
End configuration side 1 type L (with electrical connection)										L		
End configuration side 1 type K (with electrical connection)										K		
End configuration side 2 type M (with tapering for use with JES-family probes)								M			
End configuration side 2 type H (without electrical connection)									Н			
Power supply 400 VAC / 50/60 Hz								4				
Power supply 230 VAC / 50/60 Hz								2				
Power supply 115 VAC / 50/60 Hz								1				
SS316 core							SS	_				
PFA core							PFA					
PTFE core							PTFE					
Outer diameter 3/8"						7						
Outer diameter 1/4"						5						
Diameter DN 8/10 mm						8						
Diameter DN 6/8 mm						6						
Diameter DN 4/6 mm						4						
Line length without protrusion in dm (e.g.: 10 m = 100; 4.5 m = 045)					XXX							
Sample gas core 100 mm protruded				0								
Jacket made of corrugated PA12			4									
2 x temperature sensor Ex-Pt100		9										

ORDER CODE

Part	Num	hor
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ACCESSOILES		Fait Nulliber
	Universal mounting clamp for mounting at gas sample probes series JES. Requires mounting hole for 50 to 61 mm mounting clamp with JES probe.	35.00981
	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 Box LMALD B C	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



UK & Ireland Distributor

Kingfisher Business Park, London Road, Stroud, Gloucestershire, GL5 2BY, UK

Tel: +44 (0) 1453 733200 <u>sales@et.co.uk</u> www.et.co.uk