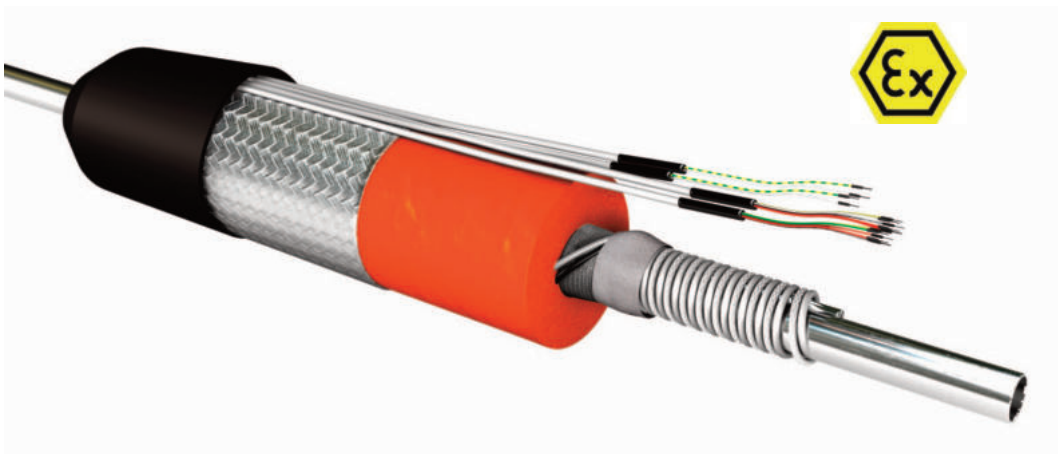




JH3EX

Heated Sample Line



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 steadily/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: - PTFE / 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

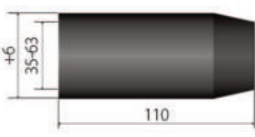
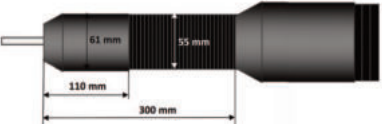
Material inner core	PTFE, PFA, SS316
Heating element	ATEX certified spiraled line heater
Temperature sensors**	2x ATEX certified Ex-Pt100, 3-wire
Thermal insulation	multi-layered thermo fleece
End configuration	silicone caps (see table below), sample gas core 100 mm protruded
Maximum sample line length* (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 mm

without electrical connection (side 2 – probe side)		with electrical connection (side 1 – cabinet side)		type
H			K	silicone cap
M	 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

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ORDER CODE

Accessories

Part Number

	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-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