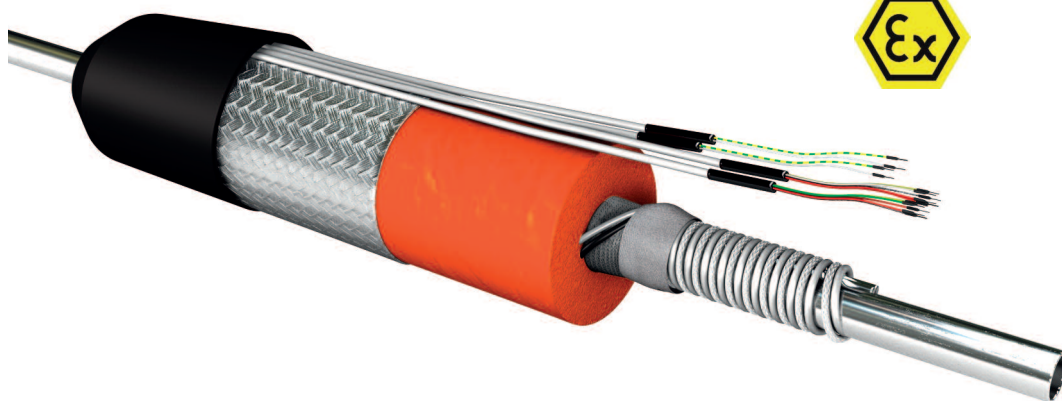




**JCT**  
Analysentechnik

# 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
- To stay safely above the acid dew point
- Protection against measured value falsification and frost
- Indoor and outdoor use

## BENEFITS

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

## FEATURES

- Maintain temperature regulated up to 200 °C
- Antistatic external jacket of corrugated polyamide PA12
- Heat insulation with thermo fleece
- 2 temperature sensors for intrinsically safe connection
- Ready for use
- Second core for e.g. calibration gas as option
- Inner core reinforced with stainless steel braid

## TECHNICAL DATA

Model	JH3EX
Description	regulated heated sample line ATEX-approved
External jacket	corrugated polyamide 11/12 jacket, black, electrically conductive
Inner core	fixed
Area of application	mobile and fixed installation indoor and outdoor

### Operation data

Operating temperature	max. 200 °C
Operating pressure at +20 °C	DN 4/6 mm 12 bara DN 6/8 mm 8 bara DN 8/10 mm 6,5 bara
Ambient temperature*	-40 °C to +100 °C

### Construction

Material inner core	PTFE, optional PFA
Heating element	Heating cable with protection braid, ATEX-certified, Certificate no: PTB 09ATEX1029 U
Temperature sensors**	Ex proof PT100 / 4-wire or 3-wire RTD Certificate no: IECEx IBE 12.0002X
Thermal insulation	multi-layered thermo fleece
End configuration	silicone caps (see table below), inner code protruding 100 mm
Maximum sample line length*	DN 4/6 und 6/8 mm: 25 m at 230 VAC, 15 m at 115 VAC DN 8/10 mm: 22 m at 230 VAC, 12 m at 115 VAC
Diameter sample line outside	63 mm
Minimum bending radius	300 mm
Dimensions of silicone caps	L = 110 mm, Ø 49 mm
Type of protection	⚠ II 2G Ex e IIC T3-T5 Gb II 2D Ex tb IIIC TX Db
Protection class	IP 54 (EN60529)
Approvals / Sign	CE

### Electrics

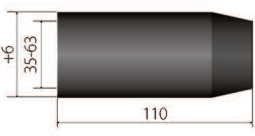


Power supply	230 VAC 50/60 Hz or 115 VAC 50/60 Hz
Power consumption	DN 4/6 mm: 100 W/m
Connection cable	1,5 m, PTFE-insulated

\* To achieve extended length, **JCT** offers heated lines with reduced power (W/m) or with a second heating circuit. For lower ambient temperatures versions with higher performance are available. Please consult **JCT** sales team.

\*\* Temperature sensor position is 1m from electrical connection. It is mandatory to use a suitable controller and limiter. See separate datasheet for more information.

## 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
			L	Silicone cap

## ORDER CODE

### JH3EX

2 x Temperature sensor PT100*	9																	
Jacket made of corrugated PA 11/12		4																
Jacket made of corrugated PA 11/12 with silicone layer																		
Core 200 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 6/8 mm									6									
Diameter DN 8/10 mm									8									
Outer diameter 1/4"									5									
Outer diameter 3/8"									7									
PTFE core												PTFE						
PFA core												PFA						
Power supply 115 VAC / 50/60 Hz													1					
Power supply 230 VAC / 50/60 Hz													2					
Power supply 400 VAC / 50 Hz													4					
End configuration side 2 type H (without electrical connection)																	H	
End configuration side 1 type K (with electrical connection)																		K
End configuration side 1 type L (with electrical connection)																		L
Without calibration core																		0
Calibration core DN4/6 mm																		4

**Order code**

**JH3EX.**

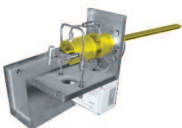
## ORDER CODE

### Accessories

### Part Number

	Universal mounting clamp for mounting at gas sample probes series JES for line diameters 35 to 50 mm	<b>35.00980</b>
	Universal mounting clamp for mounting at gas sample probes series JES for line diameters 50 to 61 mm	<b>35.00981</b>
	Ex-temperature controller up to 16A with LED indicator, 230 VAC	<b>89.01000</b>
	Ex-temperature controller up to 16A with display, 230 VAC	<b>89.01010</b>
	Ex-temperature limiter up to 16A with LED indicator, 230 VAC	<b>89.01020</b>
	Ex-temperature limiter up to 16A with display, 230 VAC	<b>89.01030</b>
	Handheld controller for 89.01000 & 89.01020 for Ex zone, 230 VAC	<b>89.01040</b>

Gas Sampling **Probes**



Heated Sample **Lines**



Sample Gas **Coolers**



Gas Conditioning **Systems**



NOx **Converter**



and solutions for

