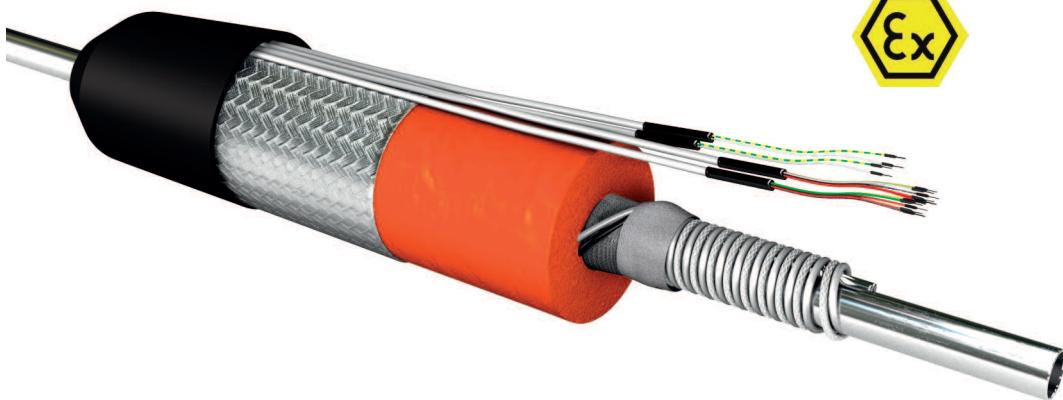




# JH3EX

## Heated Sample Line

**JCT**  
Analysentechnik



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

### 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

### BENEFITS

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

## 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<br>DN 6/8 mm 8 bara<br>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,<br>Certificate no: PTB 09ATEX1029 U   |
| Temperature sensors**        | Ex proof PT100 / 4-wire or 3-wire RTD<br>Certificate no: IECEx IBE 12.0002X  |
| Thermal insulation           | multi-layered thermo fleece  |
| End configuration            | silicone caps (see table below), inner core protruding 100 mm  |
| Maximum sample line length*  | DN 4/6 und 6/8 mm: 25 m at 230 VAC, 15 m at 115 VAC<br>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

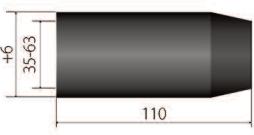
|                   |                                      |
|-------------------|--------------------------------------|
| Power supply      | 230 VAC 50/60 Hz or 115 VAC 50/60 Hz |
| Power consumption | DN 4/6 mm: 100 W/m                   |
| Connection cable  | 1,5 m, PTFE-insulated             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

\* 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<br>(side 2 – probe side) |   | With electrical connection<br>(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             |
| <b>Order code</b>  | <b>JH3EX.</b> |
|  | 0             |
|  | H             |

## 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

