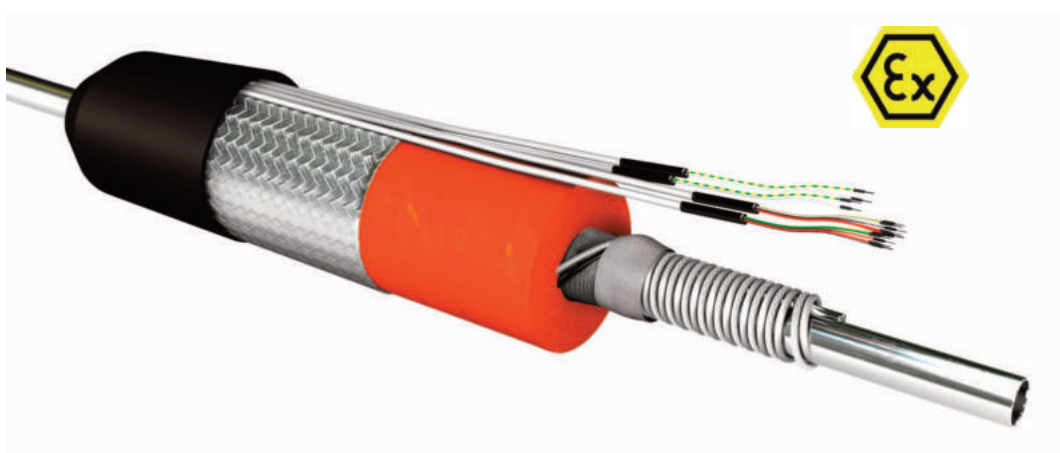




**JCT**  
Analysentechnik

# 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
- 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<br>(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<br>option pressure hose:<br>- 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<br>- 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*<br>(for one heating circuit) | <b>115 V:</b> DN 4/6 and 6/8 mm – 11 m, DN 8/10 mm – 10 m<br><b>230 V:</b> DN 4/6 and 6/8 mm – 25 m, DN 8/10 mm – 22 m<br><b>400 V:</b> DN 6/8 mm – 40 m, DN 8/10 mm – 36 m<br>(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<br>⚡ II 2D Ex 60079-30-1 tb IIIC T200 °C - T85 °C Db IP65  |
| Protection class   | Electric components: IP65<br>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<br>(side 2 – probe side) |  | with electrical connection<br>(side 1 – cabinet side) |   | type         |
|--|--|---|---|--------------|
| H  |  |   | K | silicone cap |
| M  | <p>Tapering at JES side for use with JES-family sample probes. Requires mounting hole for 50 to 61 mm mounting clamp with JES probe.</p> |   | L | silicone cap |



## ORDER CODE

### Accessories

### Part Number

|   |   |                        |
|---|---|------------------------|
|    | <p>Universal mounting clamp for mounting at gas sample probes series JES. Requires mounting hole for 50 to 61 mm mounting clamp with JES probe.</p> | <p><b>35.00981</b></p> |
|    | <p>Ex-temperature controller up to 16 A with LED indicator, 230 VAC, 50 Hz</p>  | <p><b>89.01000</b></p> |
|    | <p>Ex-temperature controller up to 16 A with display, 230 VAC, 50 Hz</p>  | <p><b>89.01010</b></p> |
|  | <p>Ex-temperature limiter up to 16 A with LED indicator, 230 VAC, 50 Hz</p>   | <p><b>89.01020</b></p> |
|  | <p>Ex-temperature limiter up to 16 A with display, 230 VAC, 50 Hz</p>   | <p><b>89.01030</b></p> |
|  | <p>Handheld controller for 89.01000 &amp; 89.01020 for Ex zone</p>  | <p><b>89.01040</b></p> |

Gas Sampling Probes



Heated Sample Lines



Sample Gas Coolers



Gas Conditioning Systems



NOx Converter



and solutions for

