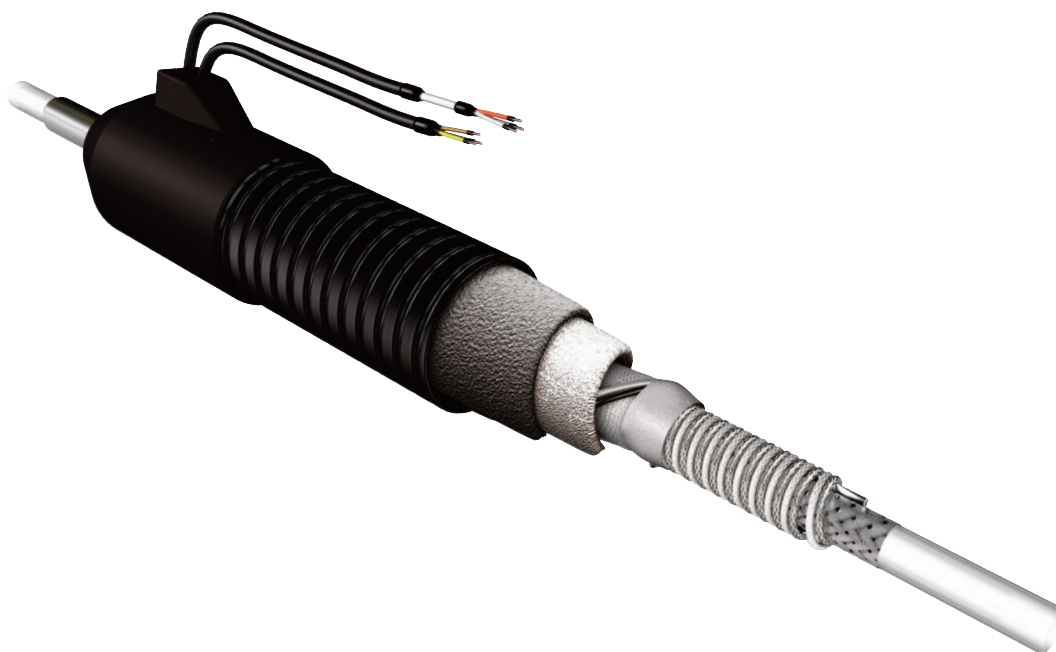




JH3E & JH3ER Heated Sample Line

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
- 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
- Easy exchange of the inner core (JH3ER)
- Long lifetime
- Kink protection

FEATURES

- Operating temperature up to 180 °C with temperature controller
- External jacket of corrugate polyamide PA12
- Heat insulated by thermo fleece
- Ready to use
- Interchangeable inner core for JH3ER
- Second core for e.g. calibration gas as option
- Inner core reinforced with stainless steel braid
- Built-in control wires for JES-family sample probes (option)

TECHNICAL DATA

Model	JH3E	JH3ER
Description	regulated heated sample line (requires temperature controller)	
External jacket	corrugated polyamide 11/12 jacket, black option: with silicone layer	
Sample gas core	fixed	interchangeable
Area of application	mobile and fixed installation indoor and outdoor	
Integrated control lines (option)	control line 3 x 1 mm ² (power supply) plus 2 x 0,75 mm ² (status control) or control line 3 x 1,5 mm ² (power supply) plus 2 x 1 mm ² (status control)	

Operation data

Operating temperature	max. 180 °C
Operating pressure at 200 °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*	-20 °C to +60 °C (up to +80 °C with optional silicone layer)

Construction

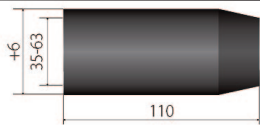


Material inner core	PTFE, PFA, SS316	
Heating element	design according to DIN moisture proof with protection braid	
Thermal insulation	multi-layered thermo fleece	
End configuration	silicone caps (see table below), sample gas core 100 mm protruded	
Maximum sample line length*	115 V: DN 4/6 and 6/8 mm – 30 m, DN 8/10 and 10/12 mm – 25 m 230 V: DN 4/6 and 6/8 mm – 60 m, DN 8/10 and 10/12 mm – 50 m, 400 V: all diameters – 100 m (only for sample gas core 6/8 mm or bigger)	115 V: DN 4/6 and 6/8 mm – 25 m, 230 V: DN 4/6 and 6/8 mm – 50 m, 400 V: all diameters – 50 m
Diameter sample line outside	43 mm	
Minimum bending radius	DN 4/6 mm: 200 mm, DN 6/8 mm: 200 mm, DN 8/10 mm: 250 mm, DN 10/12 mm: 250 mm	DN 4/6 mm: 260 mm DN 6/8 mm: 260 mm
Dimensions of silicone caps	L = 110 mm, Ø 49 mm, Ø 56 mm with integrated control lines	
Protection class	IP 54 (EN60529)	

Electrics

Power supply	115 VAC 50/60 Hz or 230 VAC 50/60 Hz or 400 VAC 50/60 Hz Y-connection (L1, L2, L3, PE)	
Power consumption	DN 4/6 mm: 90 W/m; DN 6/8 mm: 90 W/m; DN 8/10 mm: 100 W/m ; DN 10/12 mm: 100 W/m	DN 4/6 mm: 100 W/m; DN 6/8 mm: 100 W/m
Connection cable	1,5 m with open leads	
Connection plug (option)	4-pin + PE or 6-pin + PE connector	

* 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.

End configuration of sample line

Without electrical connection (side 2 – probe side)		With electrical connection (side 1 – cabinet side)		Type
H			K	silicone cap
			L	silicone cap

Dimensions in mm

