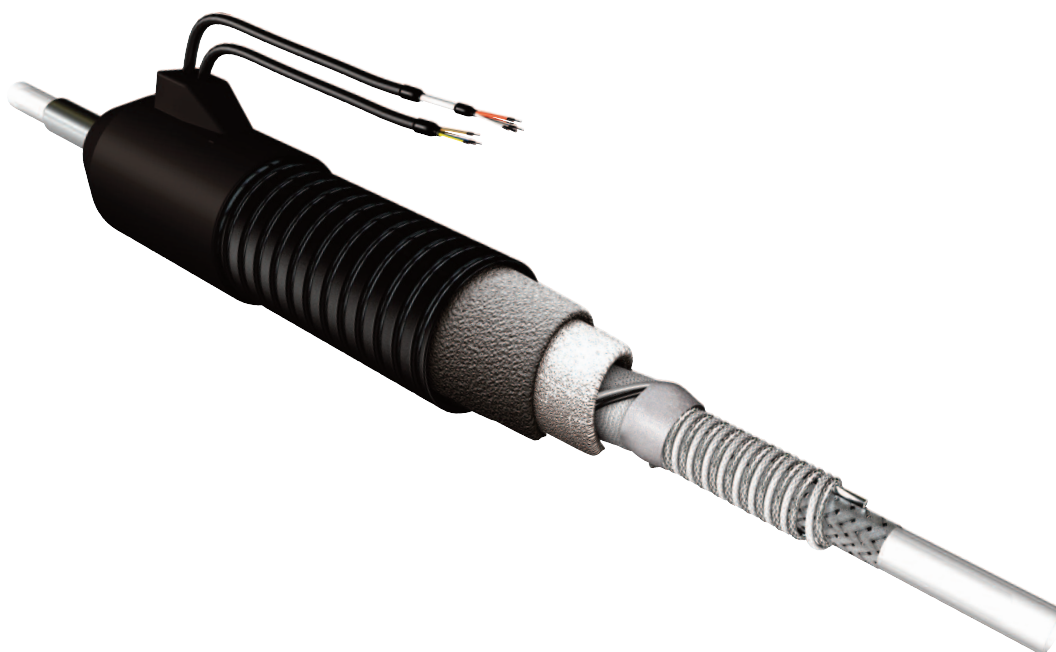




JH3E & JH3ER Heated Sample Line

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

FEATURES

- Maintain temperature regulated up to 185 °C
- External jacket of corrugated polyamide PA12
- Heat insulation with thermo fleece
- Ready for use
- Interchangeable inner core for JH3ER
- Second core for e.g. calibration gas as option
- Inner core reinforced with stainless steel braid

TECHNICAL DATA

Model	JH3E	JH3ER
Description	regulated heated sample line	
External jacket	corrugated polyamide 11/12 jacket, black option: with silicone layer	
Inner core	fixed	interchangeable
Area of application	mobile and fixed installation indoor and outdoor	

Operation data

Operating temperature	max. 185 °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 +80 °C	

Construction

Material inner core	PTFE, optional PFA	
Heating element	design according to DIN moisture proof with protection braid	
Thermal insulation	multi-layered thermo fleece	
End configuration	silicone caps (see table below), inner core protruding 100 mm	
Maximum sample line length* JH3E / JH3ER	DN 4/6 mm: 45 m / 40 m DN 6/8 mm: 45 m / 40 m DN 8/10 mm: 40 m / 40 m	
Diameter sample line outside	43 mm	
Minimum bending radius JH3E / JH3ER	DN 4/6 mm: 200 mm / 260 mm DN 6/8 mm: 200 mm / 260 mm DN 8/10 mm: 250 mm / 300 mm	
Dimensions of silicone caps	L = 110 mm, Ø 49 mm	
Protection class	IP 54 (EN60529)	

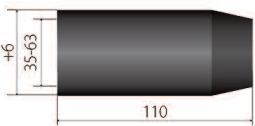


Electrics

Power supply	230 VAC 50/60 Hz or 115 VAC 50/60 Hz or 400 VAC 50 Hz	
Power consumption JH3F / JH3FR	DN 4/6 mm: 90 W/m / 100 W/m DN 6/8 mm: 90 W/m / 100 W/m DN 8/10 mm: 100 W/m / 120 W/m	
Connection cable	1,5 m for connection to JPXE4 temperature controller **	
Connection plug (options)	4-pole plug or 6-pole plug for other temperature controllers	

* 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.

** For more information about the temperature controller JPXE4 see separate datasheet.

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

JH3E with fixed inner core

Temperature sensor PT100*	2																			
Temperature sensor PT100* + limiter (thermo switch in connection housing)	3																			
Temperature sensor NiCr-Ni type K*	4																			
2 x Temperature sensor PT100*	9																			
Jacket made of corrugated PA 11/12			4																	
Jacket made of corrugated PA 11/12 with silicone layer			9																	
Core 200 mm protruded				0																
Line length without protrusion in dm (e.g.: 10 m = 100; 4,5 m = 045)					XXX															
Diameter DN4/6 mm													4							
Diameter DN6/8 mm													6							
Diameter DN8/10 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
No connection plug, wire open end																				A
Connection plug 6-pole + PE plug (max. 10 A)																				B
Connection plug 4-pole + PE plug (max. 20 A)																				C

Order code

JH3E.

4 0 XXX PTFE PFA 1 2 4 H K L 0 4 A B C

Suitable temperature controller JPXE4 can be found in this chapter (2)

ORDER CODE

JH3ER with interchangeable inner core

Temperature sensor PT100*	2
Temperature sensor PT100* + limiter (thermo switch in connection housing)	3
Temperature sensor NiCr-Ni type K*	4
2 x Temperature sensor PT100*	9
Jacket made of corrugated PA 11/12	4
Jacket made of corrugated PA 11/12 with silicone layer	9
Core 200 mm protruded	0
Line length without protrusion in dm (e.g.: 10 m = 100; 4,5 m = 045)	XXX
Diameter DN4/6 mm	4
Diameter DN6/8 mm	6
Diameter DN8/10 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
No connection plug, wire open end	A
Connection plug 6-pole + PE plug (max. 10 A)	B
Connection plug 4-pole + PE plug (max. 20 A)	C


Order code **JH3ER.**

	4	0					H		
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Suitable temperature controller JPXE4 can be found in this chapter (2)

Accessories

Part Number

	Universal-mounting clamp for mounting at gas sample probes series JES for line diameters 35 to 50 mm	35.00980
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Gas Sampling **Probes**

Heated Sample **Lines**

Sample Gas **Coolers**



Gas Conditioning **Systems**

NOx **Converter**

and solutions for

