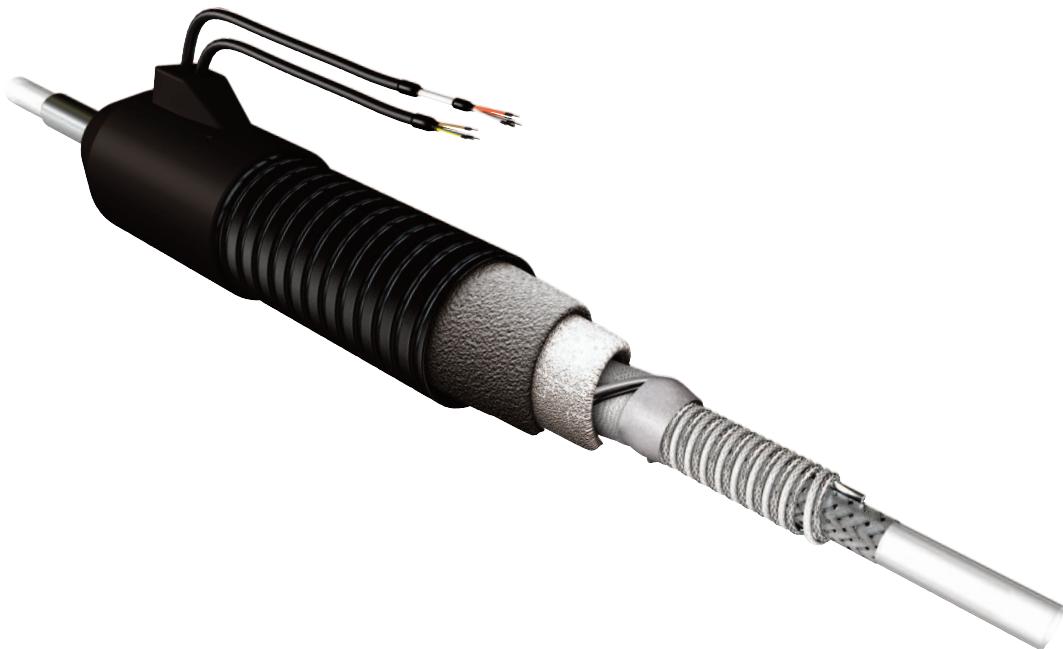




JH3E & JH3ER Heated Sample Line



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

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

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

JCT
Analysentechnik

Gas Sampling
Probes

Heated Sample Lines

Sample Gas
Coolers

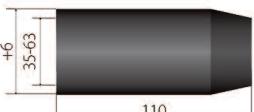
Condensate
Treatment

Accessories

Gas Conditioning
Systems

Sample Gas
Converters

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			
<small>* 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.</small>				
<small>** For more information about the temperature controller JPXE4 see separate datasheet.</small>				
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

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

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

Accessories



Universal-mounting clamp for mounting at gas sample probes series JES for line diameters 35 to 50 mm

35 00980

Gas Sampling **Probes**



Heated Sample **Lines**



Sample Gas **Coolers**



Gas Conditioning **Systems**



NOx Converter



and **solutions** for



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