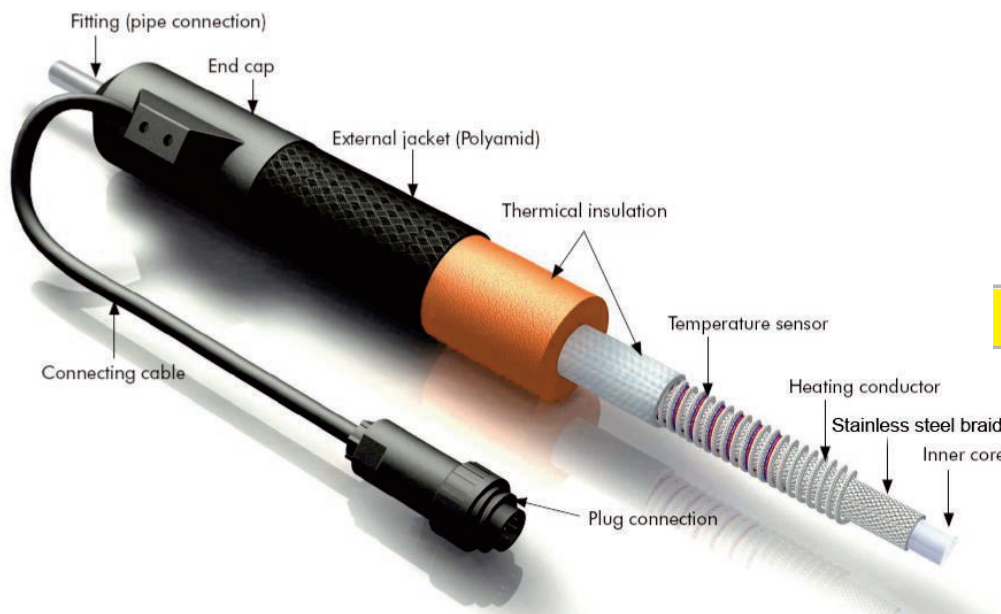


Innovation in Gas Analysis

JH3FG & JH3FGR Heated Sample Lines with PA-Protection Braid



APPLICATION

- For extractive gas analysis
- For emission and process monitoring
- For transport of sample gas from sample point to analysis system
- To stay safely above the acid dew point
- For protection against measured value falsification and frost
- For indoor and outdoor use
- Applicable for portable systems

BENEFITS

- No condensate formation, no freezing
- Close bending radius possible
- Excellent thermal insulation
- Optimal heat deployment
- Customized configurations
- Easy exchange of the inner core (JH3FGR)
- Long lifetime also in portable applications
- Kink protection

FEATURES

- Regulated heatable to max. 200°C
- External jacket flexible protection braid of polyamide
- Heat insulation with silicone foam
- Ready for use
- Very flexible
- Interchangeable inner core for JH3FGR
- Second core for e.g. calibration gas as option
- Integrated temperature controller as option
- Inner core reinforced with stainless steel braid



JCT

Analysentechnik
GmbH

Gas Sampling Probes

Heated Sample Lines

Sample Gas Coolers

Condensate
Treatment

Accessories

Gas Conditioning
Systems

Sample Gas
Converters



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TECHNICAL DATA

Model	JH3FG / JH3FGR	
Description	regulated heatable sample line	
External protection jacket	polyamide braid, black	
Inner core	fixed	interchangeable
Area of application	mobile and fixed installation indoor and outdoor	

Operation data

Operating temperature	max. 200°C
Operating pressure	max. 10 bara
Ambient temperature*	-30°C....+60°C

Construction

Material inner core	PTFE, optional PFA			
Heating element	design according to DIN moisture proof with protection braid			
Thermal insulation	close pore, waterproof silicone hose, thermally stabilised			
End configuration	Hard caps or silicone caps (see below)			
Maximum sample line length*	50 m			
Diameter core / sample line outside	DN 4/6 mm / 42 mm	+/- 3 mm	DN 4/6 mm / 42 mm	+/- 3 mm
	DN 6/8 mm / 42 mm	+/- 3 mm	DN 6/8 mm / 48 mm	+/- 3 mm
Minimum bending radii JH3FG / JH3FGR	DN 4/6 mm: 50 mm / 100 mm DN 6/8 mm: 75 mm / 120 mm			
Dimensions of silicone-caps [mm]	DN 4/6: L = 88, Ø 50 (H), Ø 70 (C) DN 6/8: L = 88, Ø 50 (H), Ø 70 (C)			
Dimensions of PA hard caps [mm]	DN 4/6: L = 111, Ø 50 (F), Ø 75 (A)		DN 4/6: L = 111, Ø 50 (F), Ø 75 (A)	
	DN 6/8: L = 111, Ø 50 (F), Ø 75 (A)		DN 6/8: L = 120, Ø 54 (F), Ø 79 (A)	

Electrics

Power supply	230 VAC 50/60 Hz or 115 VAC 50/60 Hz
Power consumption	100 W/m
Connection cable	3 m long
Connection plug	7-pole-plug for connection of temperature controller HT-43 and HT-55 HANQ8-plug for connection of temperature controller HT-41

Option integrated temperature controller HT 54

Installation site	directly on hard cap end
Power supply	230 VAC 50....60 Hz / 115 V 60 Hz
Switching capacity	max. 1000 W / 5 A (max. 10 m 230 V and 5 m at 115 V)
Temperature range	0....254°C, adjustable in 2°C steps via DIP-switch
Temperature sensor	PT 100
Housing material	PA-reinforced glass fiber
Protection class	IP 42 optional sealed: IP 65 (fixed temperature adjustment)

* 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.



Additional suitable temperature controllers series HT and JPXR4 can be found in this chapter (2)

ORDER CODES

JH3FGR

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
Outer protection PA braid	0
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
PTFE core	PTFE
PFA core	PFA
Power supply 230 VAC / 50/60 Hz	2
Power supply 115 VAC / 50/60 Hz	1
End configuration side 2 type F (without electrical connection)	F
End configuration side 2 type H (without electrical connection)	H
End configuration side 1 type A (with electrical connection)	A
End configuration side 1 type C (with electrical connection)	C
Without calibration core	0
Calibration core DN 2/3 mm	2
Calibration core DN 4/6 mm	4
Without integrated temperature controller	0
With integrated temperature controller HT-54	Z2
With integrated sealed temperature controller HT-54 with fixed temperature adjustment (please specify desired temperature with order)	Z3
Without strain relief	0
With strain relief**	Q16
Order code	JH3FGR. 0 0

* Temperature sensor position at line length up to 10 m = 0,3 m from electrical connection, at line length >10 m = 3 m from electrical connection, others on request

** For sample line length >10 m and vertical installation a strain relief is recommended

Suitable temperature controllers series HT and JPXR4 can be found in this chapter (2)

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