



Heated sample gas line

The most common problems in gas analysis systems are related to sample gas conditioning and the sampling lines. Condensate in the sample gas, adsorption and contamination from the sample gas line can affect the accuracy of measurements considerably.

Sampling lines transport the sample gas from the sampling point to the gas conditioner or the analyser. The heated sampling lines keep the temperature of the sample gas above the dew point or the reaction temperature, preventing gas condensation in the analysis system. Condensation must be prevented in the sampling lines for accurate, reliable measurements.

Our experts will gladly advise you on selecting suitable sampling lines and other components for your specific application.

Proven, reliable sampling line

Corrugated PA outer sheath standard

Self-regulating lines at 65 °C (149 °F) and 120 °C (248 °F)

Regulated lines up to 200 °C (392 °F)

Pt100 standard, thermal element optional

Atex Zone 1 lines available

PTFE- and VA core standard

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Double and replaceable cores available

Options with additional power supply and sensor line

Helpful options such as insufficient temperature contact, plug and screw connections

Helpful accessories such as insulating sleeves and transitional heaters



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Technical Data

Heated lines for non-explosive applications

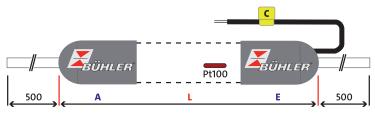
Self-regulating lines

sheath corrugated
m (19.69 in) unheated
sheath corrugated
m (19.69 in) unheated
11

Other dimensions, materials and replaceable core available upon request.

Dimensions

Schematic heated line construction. The Pt100 only is only installed standard in the controllable line.



Ordering Instructions

Item no.	Туре
48 5000 XXXX	self-regulating to 65 °C (149 °F)
48 5001 XXXX	self-regulating to 120°C (248 °F)
48 5012 XXXX	controllable up to 200 °C (392 °F)



Item numbers of lines only for non-explosive gases and environments. Lines for use in explosive areas available upon re-

XXXX indicates consecutive numbering. Please contact us for the version you require.

Special types available upon request.

Temperature controller for use in controllable lines type 48 5012 XXXX

Item no.	Туре
48 5300 0002	Wall-mounted temperature controller, terminal clamps,
	operating voltage 90250 V, switching current 10 A
48 5300 0003	Wall-mounted temperature controller, heating connects via round connector 4+PE, operating voltage 90250 V, switching current 20 A

We reserve the right to amend specification.

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Helpful accessories for connecting heated lines

A suitable connection between heated lines requires thermal insulation or active heating between the unheated ends. Silicone foam insulating sleeves are available for this purpose. If passive insulation is inadequate, you may choose a self-regulating transitional heater.

Insulating Sleeve



Technical Data - Insulating Sleeve

Туре:	ID 20 mm/OD 42 mm
Length:	80 mm (3.15 in)
Item number:	48 5300 0016

Self-regulating transitional heater





Inside view



The self-regulating transitional heater can be used for cutting ring fittings as well as tubes and pipes with an outside diameter of 6 mm (0.24 in), 8 mm (0.31 in) and 1/4". The construction allows heating straight connectors, 90° elbows as well as T-fittings.

Technical Data - Self-Regulating Transitional Heater

5 5	
Material:	Silicone (elastic)
Ambient temperature:	-60 °C to +200 °C (-76 °F to 392 °F)
Operating temperature:	+200 °C (392 °F) (self-regulating)
Voltage:	230V _{AC} / 115V _{AC}
Electrical connection:	1 m (3.28 ft)silicone cable with cable ends, protection rating II
International protection rating:	IP62
Dimensions:	\emptyset_{o} = 63 mm (2.48 in), \emptyset_{i} = 17 mm (0.67 in), L = 60 mm (2.36 in)
Item number:	48 5300 0017