

Heated sample line

Most problems with gas analytical systems can be traced to problems with the sample conditioning and transport systems. Condensation related bias, sample line adsorption, and line contamination can significantly affect the accuracy of analytical results.

Sample lines transfer the gas sample from the sample probe to the sample conditioning system or to the gas analyzer. The heated sample line maintains the temperature of the sample gas above the dewpoint or reaction temperature to prevent condensation in gas analytical systems. Keeping sample gas lines free of condensation eliminates scrubbing bias ensuring accurate, reliable analytical results.

Bühler's sampling system experts have experience with a wide variety of sampling applications. They will assist you in selecting the proper sample line and other components to meet your needs.



Bühler sample lines can be custom designed and configured to meet the requirements of almost any application. The standard sampling line consists of up to three inner lines (PTFE or SS tubing), a stainless steel insulation plate, heating tape and outside insulation. They are delivered pre-mounted in lengths according to customer needs.

Available Models:

- Self-regulated - Temperature range: 65 - 120°C
- Regulated with controller - Temperature range: 100 - 200°C
- ATEX specification self-regulated - Temperature range: 65 - 135°C
- ATEX Specification regulated with controller; Zone 1; Zone 2; EExd IIC; EEx e II; T3 - T6

Custom Configurations Available

Heated sample line Plastic corrugated hose PA

Self Regulating

H300B1	65 °C; 230 V; core: PTFE; DN 4/6; lock up: both sides PA hard caps
H300B2	65 °C; 115 V; core: PTFE; DN 4/6; lock up: both sides PA hard caps
H300B3	120 °C; 230 V; core: PTFE; DN 6/8; lock up: both sides PA hard caps
H300B4	120 °C; 115 V; core: PTFE; DN 6/8; lock up: both sides PA hard caps

Self Regulating ATEX

H300BEX1	65 °C; 230 V; core: PTFE; DN 4/6; lock up: both sides PA hard caps EExd IIC T5
H300BEX2	65 °C; 115 V; core: PTFE; DN 4/6; lock up: both sides PA hard caps EExd IIC T5
H300BEX3	120 °C; 230 V; core: PTFE; DN 6/8; lock up: both sides PA hard caps EExe II T3
H300BEX4	120 °C; 115 V; core: PTFE; DN 6/8; lock up: both sides PA hard caps EExe II T3

Regulated by Controller

H300F1	200 °C; 230 V; core: PTFE; DN 4/6; lock up: both sides PA hard caps
H300F2	200 °C; 115 V; core: PTFE; DN 4/6; lock up: both sides PA hard caps
H300F3	200 °C; 230 V; core: PTFE; DN 6/8; lock up: both sides PA hard caps
H300F4	200 °C; 115 V; core: PTFE; DN 6/8; lock up: both sides PA hard caps

Regulated by Controller ATEX

H300FEX1	200 °C; 230 V; core: PTFE; DN 4/6; lock up: both sides PA hard caps II 2 G EEx e II T3
H300FEX2	200 °C; 115 V; core: PTFE; DN 4/6; lock up: both sides PA hard caps II 2 G EEx e II T3
H300FEX3	200 °C; 230 V; core: PTFE; DN 6/8; lock up: both sides PA hard caps II 2 G EEx e II T3
H300FEX4	200 °C; 115 V; core: PTFE; DN 6/8; lock up: both sides PA hard caps II 2 G EEx e II T3

Options

Stainless steel core (1.4301) DN4/6 or DN 6/8
Galvanized steel protective hose
V2 A steel protective hose
Temperature limiter
Terminal with heavy-gauge PG 36 screw union

Temperature Controller

HTX	Power supply 230 V AC / 115 V AC Electrical switch (control) -25 A Four digit LED-display Film keypad, 4 push buttons Dimensions: 160 x 100 x 60 mm Main connection cable 1.2 m
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Custom Configurations Available