

Термально-массовые расходомеры t-mass A 150

Технические характеристики

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Proline t-mass A 150 thermal mass flowmeter

The flowmeter for cost-effective measurement and easy monitoring of utility gases



Benefits:

- Suitable for air, nitrogen, carbon dioxide and argon in small line sizes
- Optimal process monitoring – easy measurement even at low pressures and flow velocities
- Cost-effective measurement – easy installation, negligible pressure loss and maintenance-free
- Reliable flow trending – multivariable measurement
- Fast and efficient commissioning – guided operating menus
- High plant availability – self-diagnostics and error monitoring
- Automatic recovery of data for servicing

Specs at a glance

- **Max. measurement error** 3 % o.r. 4 % o.r. 5 % o.f.s. (depending on chosen option of ordering feature "Calibration flow")
- **Measuring range** 0.5 to 910 kg/h (1.1 to 2002 lb/h) 0.5 to 1365 kg/h (1.1 to 3003 lb/h) (for air, depending on chosen option of ordering feature "Calibration flow")
- **Medium temperature range** -40 to +100 °C (-40 to +212 °F)
- **Max. process pressure** PN 40, Class 300
- **Wetted materials** Transducer: 1.4404 (316L) Insertion tube: 1.4404 (316L) Measuring tube: 1.4404 (316L); 1.4435 (316L) Connection: 1.4404 (F316/F316L); 1.4404 (316L); 1.4435 (316L)

Field of application: The t-mass A 150 inline device is specially designed for the cost-effective measurement of utility gases, in particular compressed air. It is a trending device aimed at sub-metering applications. Its 4-wire technology is contained within a rugged compact aluminum housing. It is orderable either with display or as a blind

version. Customer-specific settings are saved on the display and can be transferred from one device to another by means of the display.

Features and specifications

Gas

Measuring principle

Thermal

Product headline

The flowmeter for cost-effective measurement and easy monitoring of utility gases.

Suitable for air, nitrogen, carbon dioxide and argon in small line sizes.

Sensor features

Optimal process monitoring – easy measurement even at low pressures and flow velocities. Cost-effective measurement – easy installation, negligible pressure loss and maintenance-free. Reliable flow trending – multivariable measurement.

Inline version: DN 15 to 50 (½ to 2"). Process pressure up to PN 40, Class 300. A variety of process connections available.

Transmitter features

Fast and efficient commissioning – guided operating menus. High plant availability – self-diagnostics and error monitoring. Automatic recovery of data for servicing.

Device in compact version with DC 24 V power supply. 4-20 mA HART, pulse/frequency/switch output. Compact and robust transmitter.

Nominal diameter range

DN 15 to 50 (½ to 2")

Wetted materials

Transducer: 1.4404 (316L)

Insertion tube: 1.4404 (316L)

Measuring tube: 1.4404 (316L); 1.4435 (316L)

Connection: 1.4404 (F316/F316L); 1.4404 (316L); 1.4435 (316L)

Gas

Measured variables

Mass flow, temperature, corrected volume flow, FAD volume flow

Max. measurement error

3 % o.r.

4 % o.r.

5 % o.f.s.

(depending on chosen option of ordering feature "Calibration flow")

Measuring range

0.5 to 910 kg/h (1.1 to 2002 lb/h)

0.5 to 1365 kg/h (1.1 to 3003 lb/h)

(for air, depending on chosen option of ordering feature "Calibration flow")

Max. process pressure

PN 40, Class 300

Medium temperature range

-40 to +100 °C (-40 to +212 °F)

Ambient temperature range

-40 to +60 °C (-40 to +140 °F)

Transmitter housing material

AlSi10Mg, coated

Degree of protection

IP66/67, type 4X enclosure

Display/Operation

4-line display with push Buttons

Configuration via local display and operating tools possible

Outputs

4-20 mA HART (active)

Pulse/frequency/switch output (passive)

Gas

Inputs

Status input

Digital communication

HART

Power supply

DC 18 to 30 V

Hazardous area approvals

ATEX, IECEx, cCSAus

Metrological approvals and certificates

Calibration performed on accredited calibration facilities (acc. to ISO/IEC 17025), NAMUR

Pressure approvals and certificates

PED, CRN

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