

# Proline t-mass A 150 thermal mass flowmeter

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



More information and current pricing:

[www.cz.endress.com/6AAB](http://www.cz.endress.com/6AAB)

## 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

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**Max. measurement error**

3 % o.r.

4 % o.r.

5 % o.f.s.

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

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**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")

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**Max. process pressure**

PN 40, Class 300

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**Medium temperature range**

-40 to +100 °C (-40 to +212 °F)

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**Ambient temperature range**

-40 to +60 °C (-40 to +140 °F)

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**Transmitter housing material**

AlSi10Mg, coated

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**Degree of protection**

IP66/67, type 4X enclosure

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**Display/Operation**

4 - line display with push Buttons

Configuration via local display and operating tools possible

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**Outputs**

4 - 20 mA HART (active)

Pulse/frequency/switch output (passive)

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## Gas

### Inputs

Status input

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### Digital communication

HART

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### Power supply

DC 18 to 30 V

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### Hazardous area approvals

ATEX, IECEx, cCSAus

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### Metrological approvals and certificates

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

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### Pressure approvals and certificates

PED, CRN

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