

## Deltatop DN62S



More information and current pricing:

[www.cz.endress.com/DN62S](http://www.cz.endress.com/DN62S)

### Benefits:

- Customized or application-specific flowmeter systems based on the dp method for special applications, such as: low pressure loss, abrasion resistance, calibrated meter runs, extended nominal diameter range, controlled pressure reduction
- Optimized for minimum pressure loss, maximum accuracy or maximum turndown
- Measuring range of the Deltabar differential pressure transmitter adjusted on delivery
- Application of international standards (e.g. ISO 5167)
- Robust design and no moving parts

### Specs at a glance

- **Max. measurement error** typically < 1% (ISA1932-nozzle) or 2% (long radius nozzle) of calculated volume or mass acc. ISO5167 without calibration. Uncertainty of primary element excluding uncertainty of density or compensation.
- **Measuring range** 15 ... 225'000 m<sup>3</sup>/h 75 kg/h ... 1'100 t/h at 10bar/230°C
- **Medium temperature range** Compact version: -200°C ... 200°C -328°F ... 392°F Remote version: -200°C ... 1000°C -328°F ... 1832°F
- **Max. process pressure** PN2,5 ... 400 Cl.150 ... 2500

**Field of application:** The Deltatop DN62S is part of the universal differential pressure flowmeter systems with primary elements as Venturi tubes, nozzles, orifice plates and dp transmitters Deltabar. As with Venturi tubes, a wide variety of nozzles are available. These nozzles can be standardized or developed in line with manufacturers specifications. Practically all versions can be provided by Endress+Hauser. A nozzle consists of a convergent section with a rounded profile and a cylindrical throat.

---

## Features and specifications

---

### Liquids

#### Measuring principle

---

##### Product headline

Calculated volume or mass flow measurement. dp primary element (nozzle). ISA1932-nozzle or long radius nozzle.

---

##### Sensor features

Internationally standardized ISO5167-3.

Meter runs.

Weld-In or flanged versions.

Special materials.

Compact or remote design.

Optimizable for minimized pressure loss, improved uncertainty or maximized Turndown.

Deltabar S/M differential pressure transmitter.

---

##### Nominal diameter range

DN 50...800

2" ... 32"

---

##### Max. measurement error

typically < 1% (ISA1932-nozzle) or 2% (long radius nozzle) of calculated volume or mass acc. ISO5167 without calibration.

---

##### Measuring range

0.5 ... 25'000m<sup>3</sup>/h

---

##### Max. process pressure

PN2,5 ... 400

Cl.150 ... 2500

---

---

## Liquids

### Medium temperature range

Compact version:

-200°C ... 200°C

-328°F ... 392°F

Remote version:

-200°C ... 1000°C

-328°F ... 1832°F

---

### Degree of protection

Transmitter (Deltabar):

IP67

NEMA6P

---

### Display/Operation

Transmitter (Deltabar):

4-line display

3 push buttons

Quick setup

HistoROM

---

### Outputs

Transmitter (Deltabar):

4 ... 20 mA

---

### Digital communication

Transmitter (Deltabar):

HART

PROFIBUS PA

FOUNDATION Fieldbus

---

### Hazardous area approvals

Transmitter (Deltabar):

ATEX

FM

CSA

IEC

TIIS

NEPSI

---

---

Liquids

Gas

---

**Measuring principle**

---

**Product headline**

Calculated volume or mass flow measurement. dp primary element (nozzle). ISA1932-nozzle or long radius nozzle.

---

**Sensor features**

Internationally standardized ISO5167-3.

Meter runs.

Weld-In or flanged versions.

Special materials.

Compact or remote design.

Optimizable for minimized pressure loss, improved uncertainty or maximized Turndown.

Deltabar S/M differential pressure transmitter.

---

**Nominal diameter range**

DN 50...800

2" ... 32"

---

**Max. measurement error**

typically < 1% (ISA1932-nozzle) or 2% (long radius nozzle) of calculated volume or mass acc. ISO5167 without calibration.

Uncertainty of primary element excluding uncertainty of density or compensation.

---

**Measuring range**

15 ... 225'000m<sup>3</sup>/h

---

**Max. process pressure**

PN2,5 ... 400

Cl.150 ... 2500

---

## Gas

**Medium temperature range**

Compact version:

-200°C ... 200°C

-328°F ... 392°F

Remote version:

-200°C ... 1000°C

-328°F ... 1832°F

**Degree of protection**

Transmitter (Deltabar):

IP67

NEMA6P

**Display/Operation**

Transmitter (Deltabar):

4-line display

3 push buttons

Quick setup

HistoROM

**Outputs**

Transmitter (Deltabar):

4 ... 20 mA

**Digital communication**

Transmitter (Deltabar):

HART

PROFIBUS PA

FOUNDATION Fieldbus

**Hazardous area approvals**

Transmitter (Deltabar):

ATEX

FM

CSA

IEC

TIIS

NEPSI

---

Gas

Steam

---

**Measuring principle**

---

**Product headline**

Calculated volume or mass flow measurement. dp primary element (nozzle). ISA1932-nozzle or long radius nozzle.

---

**Sensor features**

Internationally standardized ISO5167-3.

Meter runs.

Weld-In or flanged versions.

Special materials.

Compact or remote design.

Optimizable for minimized pressure loss, improved uncertainty or maximized Turndown.

Deltabar S/M differential pressure transmitter.

---

**Nominal diameter range**

DN 50...800

2" ... 32"

---

**Max. measurement error**

typically < 1% (ISA1932-nozzle) or 2% (long radius nozzle) of calculated volume or mass acc. ISO5167 without calibration.

Uncertainty of primary element excluding uncertainty of density or compensation.

---

**Measuring range**

15 ... 225'000 m<sup>3</sup>/h

75 kg/h ... 1'100 t/h at 10bar/230°C

---

**Max. process pressure**

PN2,5 ... 400

Cl.150 ... 2500

---

---

**Steam****Medium temperature range**

Compact version:

-200°C ... 200°C

-328°F ... 392°F

Remote version:

-200°C ... 1000°C

-328°F ... 1832°F

---

**Degree of protection**

Transmitter (Deltabar):

IP67

NEMA6P

---

**Display/Operation**

Transmitter (Deltabar):

4-line display

3 push buttons

Quick setup

HistoROM

---

**Outputs**

Transmitter (Deltabar):

4 ... 20 mA

---

**Digital communication**

Transmitter (Deltabar):

HART

PROFIBUS PA

FOUNDATION Fieldbus

---

**Hazardous area approvals**

Transmitter (Deltabar):

ATEX

FM

CSA

IEC

TIIS

NEPSI

Steam

---

More information [www.cz.endress.com/DN62S](http://www.cz.endress.com/DN62S)