

## Deltatop DO69S



Thông tin thêm và mức tính giá hiện tại:

[www.apsc.endress.com/DO69S](http://www.apsc.endress.com/DO69S)

### Lợi ích:

- Customized or application-specific flowmeter systems based on the differential pressure method for special applications
- Optimized for minimum pressure loss, maximum accuracy or maximum turndown
- Measuring range of the Deltabar differential pressure transmitter adjusted on delivery
- Based on international standards (e.g. ISO 5167)
- Cost-effective solution thanks to its robust design without moving parts

### Tổng quan về thông số kỹ thuật

- **Max. measurement error** typically < 1,5% of calculated volume or mass acc. ISO5167 without calibration. Uncertainty of primary element excluding uncertainty of density or compensation."
- **Measuring range** 0.4 ... 600'000 m<sup>3</sup>/h
- **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 ... 4500

**Phạm vi ứng dụng:** The Deltatop DO69S is part of the universal differential pressure flowmeter systems. With venturi tubes, nozzles, orifice plates and Deltabar differential pressure transmitters. In addition to the standard products DO61W, DO62C, DO63C, DO64P, DO65F, Endress+Hauser also supplies primary devices in the form of orifice plates in a wide range of special designs which cannot be specified within the framework of the standard products mentioned above.

### Tín năng và thông số kỹ thuật

Liquids

Measuring principle

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## Liquids

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### Product headline

Calculated volume or mass flow measurement. dp primary element (orifice).  
Special designs.

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### Sensor features

Internationally standardized.  
Nominal pipe size DN10...2000 ; 3/8...80".  
Meter runs.  
Weld-In versions.  
Compact or remote design.  
Optimizable for minimized pressure loss, improved uncertainty or maximized Turndown.  
Deltabar S/M differential pressure transmitter.

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### Nominal diameter range

DN 10...2000  
3/8" ... 80"

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### Max. measurement error

typically < 1% of calculated volume or mass acc. ISO5167 without calibration.

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### Measuring range

0.02 ... 70'000m<sup>3</sup>/h

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### Max. process pressure

PN2,5 ... 400  
Cl.150 ... 4500

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### Medium temperature range

Compact version:  
-200°C ... 200°C  
-328°F ... 392°F  
Remote version:  
-200°C ... 1000°C  
-328°F ... 1832°F

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**Liquids****Degree of protection**

Transmitter (Deltabar):

IP67

NEMA6P

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**Display/Operation**

Transmitter (Deltabar):

4-line display

3 push buttons

Quick setup

HistoROM

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**Outputs**

Transmitter (Deltabar):

4 ... 20 mA

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**Digital communication**

Transmitter (Deltabar):

HART

PROFIBUS PA

FOUNDATION Fieldbus

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**Hazardous area approvals**

Transmitter (Deltabar):

ATEX

FM

CSA

IEC

TIIS

NEPSI

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**Steam****Measuring principle**

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**Steam****Product headline**

Calculated volume or mass flow measurement. dp primary element (orifice).

Special designs.

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**Sensor features**

Internationally standardized.

Nominal pipe size DN10...2000 ; 3/8...80".

Meter runs.

Weld-In versions.

Compact or remote design.

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

Deltabar S/M differential pressure transmitter.

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**Nominal diameter range**

DN 10...2000

3/8" ... 80"

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**Max. measurement error**

typically < 1% of calculated volume or mass acc. ISO5167 without calibration.

Uncertainty of primary element excluding uncertainty of density or compensation.

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**Measuring range**

0.4 ... 600'000 m<sup>3</sup>/h

2.0 kg/h ... 3'000 t/h at 10bar/230°C

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**Max. process pressure**

PN2,5 ... 400

Cl.150 ... 4500

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**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

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**Digital communication**

Transmitter (Deltabar):

HART

PROFIBUS PA

FOUNDATION Fieldbus

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**Hazardous area approvals**

Transmitter (Deltabar):

ATEX

FM

CSA

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TIIS

NEPSI

---

Steam

Gas

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**Measuring principle**

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**Product headline**

Calculated volume or mass flow measurement. dp primary element (orifice).  
Special designs.

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**Sensor features**

Internationally standardized.  
Nominal pipe size DN10...2000 ; 3/8...80".  
Meter runs.  
Weld-In versions.  
Compact or remote design.  
Optimizable for minimized pressure loss, improved uncertainty or maximized Turndown.  
Deltabar S/M differential pressure transmitter.

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**Nominal diameter range**

DN 10...2000  
3/8" ... 80"

---

**Max. measurement error**

typically < 1,5% of calculated volume or mass acc. ISO5167 without calibration.  
Uncertainty of primary element excluding uncertainty of density or compensation."

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**Measuring range**

0.4 ... 600'000 m<sup>3</sup>/h

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**Max. process pressure**

PN2,5 ... 400  
Cl.150 ... 4500

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## 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

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