

# Deltatop DP61D



More information and current pricing:

[www.casc.endress.com/DP61D](http://www.casc.endress.com/DP61D)

## Benefits:

- Selectable according to the application: operational compact version or modular remote version
- Optimized for minimum pressure loss and highest accuracy
- Deltabar differential pressure transmitter ready adjusted
- Display configured for flow rate, differential pressure or 0 to 100 %
- Suited for bidirectional measurements
- Cost-effective solution thanks to its robust design without moving parts

## Specs at a glance

- **Max. measurement error** typically 1% of calculated volume or mass. Uncertainty of primary element excluding uncertainty of density or compensation.
- **Measuring range** 25 ... 6'500 m<sup>3</sup>/h 125 ... 33'000 kg/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** PN6 ... 250 Cl.300 ... 1500

**Field of application:** The Deltatop DP61D is part of the differential pressure flow measurement and Deltabar differential pressure transmitter. It is an average pressure Pitot tube with diamond profile.

## Features and specifications

Steam

**Measuring principle**

Differential pressure

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**Steam****Product headline**

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

Averaging pitot tube with 12mm diamond profile.

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**Sensor features**

Insertion system.

Pipe size DN40...125 ; 1-1/2...5".

Retractable version available.

Bidirectional measurement.

Compact or remote design.

Deltabar S/M differential pressure transmitter.

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**Nominal diameter range**

DN 40...125

1 -1/2" ... 5"

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**Max. measurement error**

typically 1% of calculated volume or mass.

Uncertainty of primary element excluding uncertainty of density or compensation.

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**Measuring range**

25 ... 6'500 m<sup>3</sup>/h

125 ... 33'000 kg/h at 10bar/230°C

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**Max. process pressure**

PN6 ... 250

Cl.300 ... 1500

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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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**Steam****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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**Liquids****Measuring principle**

Differential pressure

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## Liquids

### Product headline

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

Averaging pitot tube with 12mm diamond profile.

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### Sensor features

Insertion system.

Pipe size DN40...125 ; 1-1/2...5".

Retractable version available.

Bidirectional measurement.

Compact or remote design.

Deltabar S/M differential pressure transmitter.

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### Nominal diameter range

DN 40...125

1 -1/2" ... 5"

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### Max. measurement error

typically 1% of calculated volume or mass.

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### Measuring range

1.0 ... 600m<sup>3</sup>/h

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### Max. process pressure

PN6 ... 250

Cl.300 ... 1500

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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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**Gas****Measuring principle**

Differential pressure

## Gas

**Product headline**

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

Averaging pitot tube with 12mm diamond profile.

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**Sensor features**

Insertion system.

Pipe size DN40...125 ; 1-1/2...5".

Retractable version available.

Bidirectional measurement.

Compact or remote design.

Deltabar S/M differential pressure transmitter.

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**Nominal diameter range**

DN 40...125

1 -1/2" ... 5"

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**Max. measurement error**

typically 1% of calculated volume or mass.

Uncertainty of primary element excluding uncertainty of density or compensation.

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**Measuring range**

25 ... 10'000m<sup>3</sup>/h

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**Max. process pressure**

PN6 ... 250

Cl.300 ... 1500

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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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## Gas

**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

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