

Deltatop DO63C



More information and current pricing:

www.at.endress.com/DO63C

Benefits:

- Selectable according to the application: operational compact version or modular remote version
- Optimized for minimum pressure loss, highest accuracy and maximum measuring dynamics
- Measuring range of the Deltabar differential pressure transmitter adjusted on delivery
- Measurement method globally standardized according to ISO 5167
- Optional symmetric orifice 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 acc. ISO5167 without calibration. Uncertainty of primary element excluding uncertainty of density or compensation.
- **Measuring range** 10 ... 150'000m³/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** PN6 ... 100 Cl.150 ... 600

Field of application: The Deltatop DO63C is part of the differential pressure flow measurement with orifices and Deltabar differential pressure transmitter. It is a three-piece orifice with carrier rings in compact or remote design and included accessories.

Features and specifications

Liquids

Measuring principle

Differential pressure

Liquids

Product headline

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

Orifice plate with carrier ring and annular chamber corner taps.

Sensor features

Internationally standardized ISO5167-2.

Divided carrier ring with exchangeable orifice plate.

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...1000

2" ... 40"

Max. measurement error

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

Measuring range

0.4 ... 15'000m³/h

Max. process pressure

PN6 ... 100

Cl.150 ... 600

Medium temperature range

Compact version:

-200°C ... 200°C

-328°F ... 392°F

Remote version:

-200°C ... 1000°C

-328°F ... 1832°F

Liquids**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**Measuring principle**

Differential pressure

Gas

Product headline

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

Orifice plate with carrier ring and annular chamber corner taps.

Sensor features

Internationally standardized ISO5167-2.

Divided carrier ring with exchangeable orifice plate.

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...1000

2" ... 40"

Max. measurement error

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

Uncertainty of primary element excluding uncertainty of density or compensation.

Measuring range

10 ... 150'000m³/h

Max. process pressure

PN6 ... 100

Cl.150 ... 600

Medium temperature range

Compact version:

-200°C ... 200°C

-328°F ... 392°F

Remote version:

-200°C ... 1000°C

-328°F ... 1832°F

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

Steam

Measuring principle

Differential pressure

Steam

Product headline

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

Orifice plate with carrier ring and annular chamber corner taps.

Sensor features

Internationally standardized ISO5167-2.

Divided carrier ring with exchangeable orifice plate.

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...1000

2" ... 40"

Max. measurement error

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

Uncertainty of primary element excluding uncertainty of density or compensation.

Measuring range

10 ... 150'000m³/h

50 ... 750'000 kg/h at 10bar/230°C

Max. process pressure

PN6 ... 100

Cl.150 ... 600

Medium temperature range

Compact version:

-200°C ... 200°C

-328°F ... 392°F

Remote version:

-200°C ... 1000°C

-328°F ... 1832°F

Steam

Degree of protection

Transmitter (Deltabar):

IP67

NEMA6P

Display/Operation

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4-line display

3 push buttons

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Transmitter (Deltabar):

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