# Deltatop DO63C

More information and current pricing:
www.au.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 50 … 750'000 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 … 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

### 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**

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

## 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):
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More information **www.au.endress.com/DO63C**

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