

Industrial Smart Differential Pressure Transmitter Model: MDDP

Applications

- For level, volume or mass measurement in liquids, differential pressure monitoring as well as flow measurement (volume or mass flow) in conjunction with primary elements in gases, vapors and liquids.
- Process industry: Chemical/petro chemical, power stations, food and beverage, offshore oil rigs, pulp and paper, environmental technology, machine building and general plant construction.



- Accuracy 0.075 and 0.04,0.02
- Best accuracy, reproducibility and long-term stability
- Local zero and span adjustments
- Automatic temperature compensation
- Intrinsically safe and explosion proof
- Easy menu-guided commissioning via local display, 4 to 20mA
- with HART, PROFIBUS PA, FOUNDATION Fieldbus
- Overload-resistant up to 420bar / 42MPa / 6300psi, function-monitored
- Cost savings with modular concept for easy replacement of sensor, display or electronics
- Intrinsically safe and explosion proof

Description

Accuracy class
 0.075 standard and 0.04,0.02 (option)

Accuracy stability Accuracy will be held for the nominal range for a minimum of 3 years

Over pressure limit
 250 bar standard, 350bar, 420bar (option)

Transfer function Linear, squar or squar root

Response time 0.1 second

Diaphragm material Stainless steel 316,

Hastelloy, Monel, Tantalum(option)

Process connection Stainless steel 316,

Hastelloy, Monel, Tantalum(option)

■ Vent material Stainless steel 316,

Hastelloy, Monel, Tantalum(option)

■ Operating temperature -20 ... +90°C ■ Storage temperature -40 ... +120°C

temperature coefficient
 within range -20 to +90 °C









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zero & span (compensated temperature range)

zero: ≤ 0.005 % per °C typical,

≤0.01 % per °C max.

span: ≤0.005 % per °C typical,

≤0.01 % per °C max.

Damping 0...60 sec adjustable

Long stability ±0.1%F.S/year

Pressure type Differential, Gauge, absolute

Protection IP67Power supply 10 - 36VDC

Output signal
 4 ... 20mA, 0.5 ... 4.5VDC, 1 ... 5VDC, 1 ... 10VDC

Intrinsically safe
 Explosion-proof
 II 1/2 Ex ia IIC T4/T5
 II 1/2 Exia/d IIC T5/T6

■ Pressure port 1/2NPTF, 1/4NPTF or customize

Housing material
 Aluminum, Stainless steel

• Fill liquid Silicon or inert fill

Message Self diagnosis messageConduit entry size 1/2NPTF or M20*1.5

■ **shock** 50g /11ms

These transmitters can be configured utilizing any of the three following methods: (1) locally configuring the instrument (zero, range, shift, characteristics and damping ratio) by means of pushbuttons on the transmitter,

- (2) by a PC with a dedicated interface and the MADECO smart configuration software
- (3) with having the capability of digital communication, they may be configured using MADECO hand-held terminal with HART protocol or other hand-held communicators*. The data interchange with the transmitter enables the user to identify the transmitter, calibrate the sensor, read the immediate measured value of the input and the current output of the transmitter. User may alter the measurement unit and the range, introduce zero elevation, apply measurement inversion, take a square root or squar the value of the measurement and set the damping time. Additionally the operator may force an output current with a set value.

MDDP Differential pressure transmitter measures in both corrosive and non-corrosive gases, vapors and liquids.

The pressure transmitter makes use of the piezo-resistive effect to make the measurement. The output signal is a DC current which is linearly proportional to the input pressure.

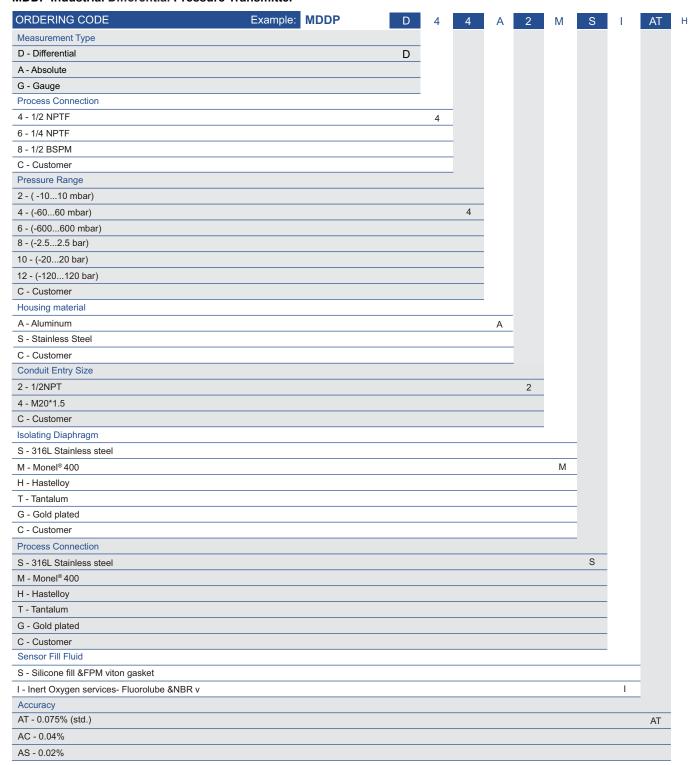
In the version "with Ex protection Ex II 1/2 G Ex ia IIC T6 Ga/Gb", the transmitter can be mounted within the hazardous area Zone 1, for connection to Zone 0.





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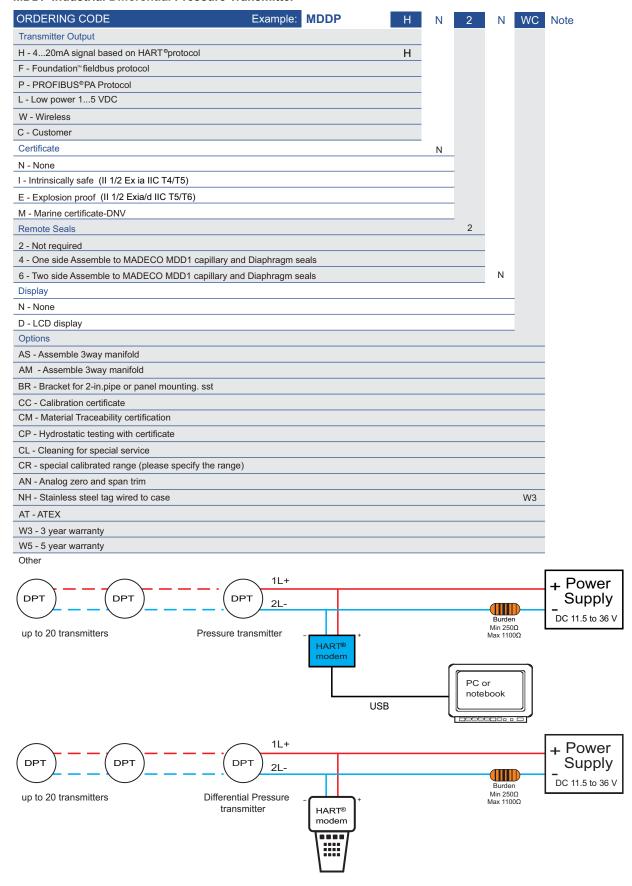
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