

Industrial Smart Pressure Transmitter Model: MDPT

Applications

- For level, Best fit for vacuum applications and applications with corrosive and abrasive media Process safety through membrane breakage detection
- Process industry: Chemical/petro chemical, power stations, food and beverage, offshore oil rigs,marine application, pulp and paper, environmental technology, machine building and general plant construction



Special features

- 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
- Cost savings with modular concept for easy replacement
- of sensor, display or electronics
- Measuring ranges: -14.7 to 20000 psi

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 ... +120°C

■ Storage temperature -40 ... +120°C

■ Temperature coefficient within range -20 to +85 °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 Gauge, absolute ,sealed gauge

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

■ Range -14.7 to 20000 psi

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 (MDPTS);

(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.

MDPT 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.

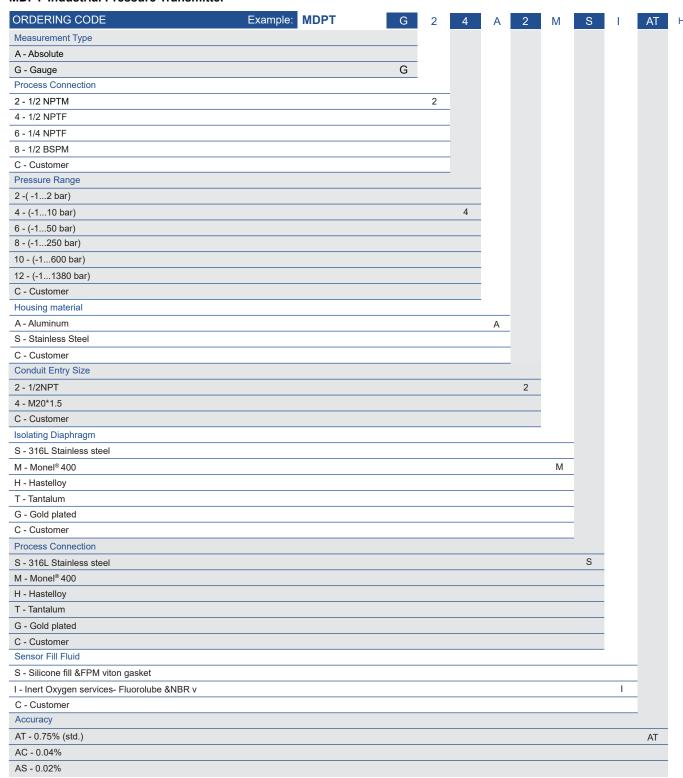
A wide spectrum of pressure separators is available for special applications such as level measurements, or for corrosive media.





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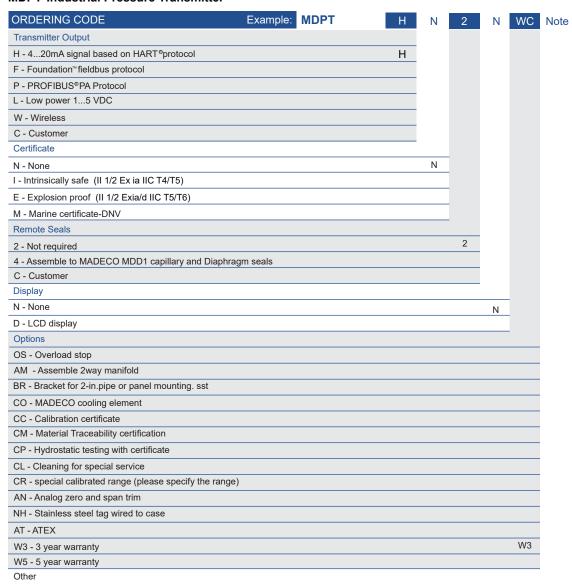
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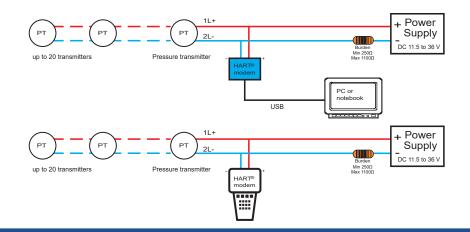




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