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Instrumentation | Flow meters, Level, Temp & Pressure Sensors

Medge Controls by Mega Switchgears

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MDP6000 Series - Pressure Transmitter Datasheet



Product Description

MDP6000 series Pressure transmitter adopts advanced Single-crystal silicon sensor chip made of MEMS technology, and globally unique single-crystal silicon double beam suspension design, resulting to its high-precision, superior over-voltage performance and excellent stability. Embedded signal processing module, real the perfect combination of static pressure and temperature compensation provides extremely high measurement over a wide range of static pressure and temperature changes

Pressure transmitter accurately measures the pressure and converts it to the 4-20mADC output signal. The transmitter can be remotely operated through the three-button local operation, or the general-purpose communicator, configuration software, and mobile phone APP, which can be displayed and configured without affecting the 4-20mADC output signal.

Product advantage

1. 316L stainless steel isolation diaphragm structure
2. Single-crystal silicon sensor chip made of MEMS technology

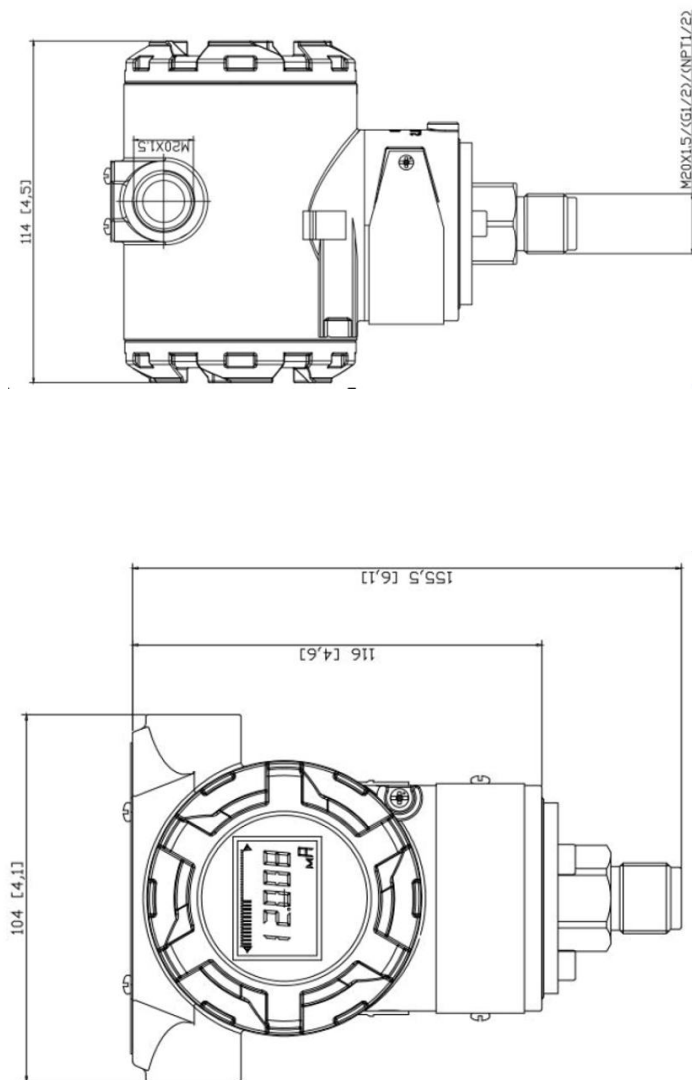
3. Used for high stability and high-precision pressure and level measurements.
4. For furnace pressure, negative pressure measurement and other requirements of high stability, high precision measurement sites.
5. Excellent overvoltage performance in a small range, 40kPa standard range chip overload pressure up to 3MPa.
6. Intelligent static pressure compensation and temperature compensation to protect the transmitter. Not affected by temperature, static pressure and overpressure, will be on site Comprehensive measurement error control to the minimum
7. 5-digit LCD display with backlight
8. Various display functions (mA, Pa, kPa, MPa, bar, mbar, %, psi, mm)
9. Comprehensive self-diagnosis function

Mainly technical parameters

Model:	MDP6000
Power supply:	24VDC
Output single:	4~20mA+HART
Measuring range:	-0.1...0...40Mpa
Compensation temperature:	-10~70 (Standard)) -10~400°C (High Temperature type)
Medium temperature:	-40~80°C
Environment temperature:	-40~85°C
Measuring media:	Gaseous, Liquid, Water
Pressure type:	Gauge pressure, Absolute pressure
Accuracy:	0.1% F.S, 0.25% F.S (standard)

Zero tempe drift: $\pm 0.03\%$ F.S/ $^{\circ}\text{C}$
 Sensitivity temperature drift: $\pm 0.03\%$ F.S/ $^{\circ}\text{C}$
 Overload: 200% F.S
 Long-term stability: $\leq 0.2\%$ F.S/year
 Inherent frequency: 5kHz~650kHz
 Protection grade: IP65
 Weight: About 2kg (bulk)

Dimension Drawing



Product Series: MDP6000

Pressure Range:

Selection from the range attached list

Pressure Type

A: Absolute pressure, G: Gauge pressure

Accuracy Level

E1: 0.1% F.S, E2: 0.25% F.S (standard)

Display Form

M0: LCD display

Installation Mode

A1: M20*1.5 (thread), A2: 1/2 NPT, A3: G 1/2, A4: Others

Connection Type

N1: Standard Type
N2: High Temperature type

Power Supply Mode

D1: 12-36VDC, D2: Others

Single Output

F1: 4~20mA (2-wire), F2: Others

MDP6000 - A - E1 - M0 - A1 - N1 - D1 - F1

It means that the model is MDP-6000, the pressure type is absolute pressure, the accuracy level is 0.1% F.S, the display form is LCD display, the installation mode is M20*1.5 (thread), the connection type is Standard Type, power supply mode is 12-36VDC & 4~20mA (2-wire) output.

Range Selection

Code	Range	Code	Range
01	0-100 pa	07	0-20 Kpa
02	0-200 pa	08	0-40 Kpa
03	0-500 kpa	09	0-1 Mpa
04	0-1 Kpa	10	0-10 Mpa
05	0-2 Kpa	11	0-40 Mpa
06	0-10 Kpa	12	Others

Pressure Gauge



Pressure Transmitter



Differential Pressure Transmitter

