Switch

MFM500/MFM500A
Temperature Compensation
LED Indicator

Range: 1cm/s~150cm/s (water),
3cm/s~300cm/s(oil)
Working Voltage: 24V DC±20%
Consumption: <90mA
Output: Relay, PNP, NPN (optional)
Initial Time: Typ. 8s(2s~15s)
Response Time: Typ. 2s(1s~15s)
Temperature Grades: 250˚C/Min(Max.)
Protection: IP67
Media Temp.: -20~80˚C
Environment Temp.: -10~70˚C
Storage Temp.: -20~85˚C
Endurance Pressure: 10MPa
Construction Material: Stainless Steel 1Cr18Ni9Ti
Flow Display: 6 LED indicators
Compensated Temp.: 5~50˚C(MFM500A)

MPM5881/MPM5881W/MTM5881
Pressure/Level/Temperature Switch

Range: -0.1...0~0.01...60MPa(MPM5881)
0m~0.5m...200m(MPM5881W)
-50~150˚C/-58~302 ˚F(MTM5881)
Power Supply: (220±44)V AC, 24V DC
Transistor Output: 1-way SPDT
Analog Output: 4~20mA DC (3-wire)
Accuracy: ±1˚C(FS≤100˚C), ±±2˚C(FS＞100˚C)(MTM5881)
±0.25%FS, ±0.5%FS(MPM5881/MPM5881W)
Operation Temp.: -20~80˚C
Protection: IP65(MPM5881)
IP67(MTM5881)
Indicator IP65, Sensor IP67(MPM5881W)

ISO9001:2015 ISO14001:2015 OHSAS18001:2007

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E002V1I01

Level Transmitter

MPM489W
ϕ26mm

Range: 1, 2, 5, 10, 20, 50, 100, 200mH$_2$O
Overpressure: 1.5×FS
Power Supply: 11~28V DC
Output: 4~20mA DC (2-wire)
Accuracy: ±0.5%FS
Long-term Stability:
±0.2%FS/year (range>10mH$_2$O)
20mmH$_2$O (ranges≤10mH$_2$O)
Operation Temp.: -10~70˚C, -10~60˚C (Exia)

MPM489WZ3
ϕ22mm

Range: 1m, 2m, 5m, 7mH$_2$O
Overpressure: 1.5×FS
Power Supply: 11~28V DC
Output: 4~20mA DC, 0.5~4.5V DC
Accuracy: ±1%FS
Long-term Stability: ±0.5% FS/year
Compensated Temp.: 0~50˚C
Operation Temp.: -20~60˚C
Storage Temp.: -20~70˚C
Transmitting: 2-wire, 3-wire
Load (Ω): ≤ (U-11)/0.02(Ω) >100k
Insulated Resistance: 50VDC, 50MΩ

MPM489WZ4
ϕ17mm

Range: 0m~20m...200mH$_2$O
Overpressure: 1.5×FS
Power Supply: 11~28V DC
Output :4~20mA DC(2-wire)
Accuracy: ±0.5%FS
Long-term Stability:
±0.2%FS/year (range>20mH$_2$O)
20mmH$_2$O (range≤20mH$_2$O)
Operation Temp.: -10~70˚C
Outer Diameter: 17mm, Length: 124mm

MPM426W/MPM436W
General
Low Level Measurement

Range: 1, 2, 5, 10, 20, 50, 100, 200mH$_2$O (MPM426W)
0.5, 1, 2mH$_2$O (MPM436W)
Overpressure: 1.5×FS (MPM426W); (10×FS)(MPM436W)
Accuracy: MPM426W: ±0.25%FS(Typ.), ±0.5%FS(Max.)
MPM436W: ±0.5%FS(Min.), ±1.0%FS(Max.)
Power Supply: 15~28V DC
Output: 4~20mA DC (2-wire),
0~10/20mA DC (3-wire),
0/1~5/10V DC (3-wire)
Operation Temp.: -10~70˚C, -10~60˚C (Exia)

MPM426WS
Deep-water Application
Dual Output

Range: 350m~2000mH$_2$O
-20...0~10...80˚C
Overpressure: 1.5×FS
Power Supply: 12~30V DC
Output: 4~20mA DC (Level)
4~20mA DC (Temperature)
Accuracy: ±0.5%FS (Level);
±2˚C (Temperature)
Long-term Stability: ±0.2%FS/year

MPM4809TD
ATEX Certified

Range: 0~2m Diesel Oil
Overpressure: 2×FS
Power Supply: 8~28V DC
Output: 4~20mA DC (2-wire)
Accuracy: ±0.5%FS
Total Error: ±1%FS (-10~80˚C)
Long-term Stability: ±0.5%FS/year
Operation Temp.: -10~80˚C

MPM4700
HART Protocol

Range: 3.5, 7, 10, 20, 35, 70, 100, 200mH$_2$O
Accuracy: ±0.075%FS(Min.),
±0.1%FS(Typ.), ±0.25%FS(Max.)
Long-term Stability: ±0.2%FS/year
Operation Temp.: -10~70˚C
Power Supply: 10~28V DC(RS485),
12~30V DC(HART)
10~12V DC(Exia)
Output: 4~20mA DC, RS485/HART (Optional)

MPM4810
Dual Output

Range: Level: 0m~5m...200mH$_2$O
Temperature: 0~125˚C
Overpressure: 1.5×FS
Accuracy: ±0.5%FS (Including Non-lin.,
Rep. and Hys.)
Temperature: ±2˚C
Operation Temp.: 0~125˚C
Power Supply: 10~30V DC
Output: 4~20mA DC (Level)
4~20mA DC (Temperature)

MPM4811
Dual Output

Range: 1, 2, 5, 10, 20, 50, 100, 200mH$_2$O
-20˚C...0˚C~10˚C...80˚C
Overpressure: 1.5×FS
Accuracy: ±0.5%FS (Level); ±2˚C(Temperature)
Long-term Stability: ±0.2%FS/year
Operation Temp.: -10~70˚C
Electrical Connection: 3-wire (level & temperature
dual output)
Power Supply: 12~30V DC
Output: 4~20mA DC (Level)
4~20mA DC (Temperature)

Flowmeter

MFE600A
Electromagnetic Flow Meter
Process Control and Water Treatment Application

Converter Type: Integrated, Separate type
Accuracy Class: 0.2, 0.5
Current Output: 4~20mA DC
(load resistance 0~750Ω) Current output is active output
Frequency Output: 1Hz~5000Hz
Pulse Output: 10~400 (pulse qty./s) pulse qty.
and width are available for users to choose
Alarm Output: Alarm for upper and lower limit of
flow and empty control
Communication Output: RS485, Modbus (Optional), GPRS(Optional)
Excitation Mode: Low frequency square-wave with
constant current excitation
Display Data: Instantaneous flow, positive and negative cumulative
amount and net cumulative amount, percentage and flow rate
Damping Function: 0.2s~60s adjustable

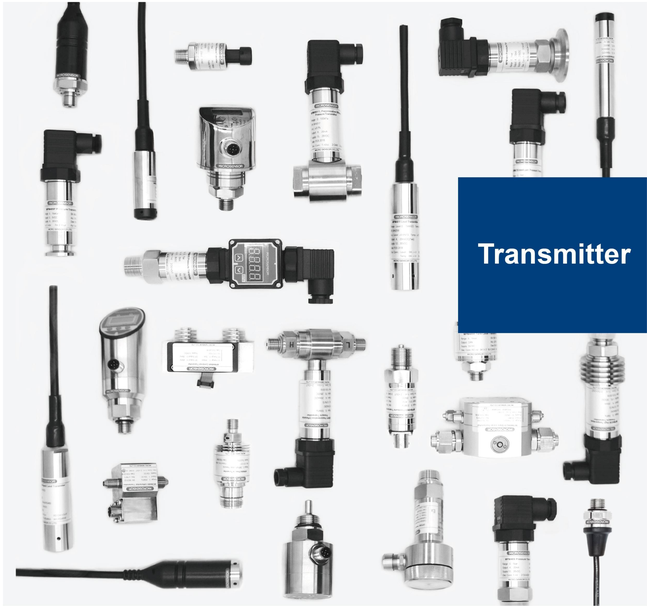
MFE600
Electromagnetic Flow Meter
Anti-vibration, anti-corrosive
Industrial and Harsh Environment Application

Pulse Output: (pulled up resistor already)
4~20mA DC
Output: Current output is active output
Alarm Output: Rated value 30V DC, 100mA
Communication Signal:
RS485 communication protocol (Optional)
RS232 communication protocol (Optional)
Load Resistance:
250~600Ω (including cable resistance)
Load Capacitance: 0.22μF (Max)
Load Inductance: 3.3mH (Max)
Space between split cables: ≤100m
Input Impedance of Receiving Instrument:
≥10kΩ (@2.4kHz)

MFP6828
Differential Pressure Flow Meter

Nominal Diameter: 15mm≤DN≤50mm
Environmental Condition: Temp. -20~80˚C
Range Ration: 1:10
Accuracy Class: 1.5, 2.5
Protection: IP65
Throttle Aperture Ratio β: 0.3≤β≤0.75
Media Temp.: -10~50˚C
Nominal Pressure: PN≤2.5Mpa
Isolated type without O ring and with welding
structure, suitable for various fluid media

MICROSENSOR
Your Partner of Sensing and Measuring



Transmitter

Pressure Transmitter

MPM480/MPM480PC3
General / Flush Diaphragm

Pressure Range: -0.1...0~0.01...100MPa (MPM480)
0~0.07...35MPa(MPM480PC3)
Overpressure: 1.5×FS (Max.110MPa)
Accuracy: ±0.25%FS (Typ.), ±0.5%FS (Max.)
Long-term Stability: ±0.2%FS/year
Power Supply: 15~28V DC
Output: 4~20mA DC(2-wire), 0/1V~5/10V DC(3-wire)
0~10/20mA DC(3-wire)
0/1V~5/10V DC(3-wire)
Operation Temp.: -30~80℃, -10~70℃(Cable)
-10~60℃ (Exia), -20~60℃(EXD)
Electrical Connection: Plug or Cable

MPM489/MPM489PC3
General / Flush Diaphragm

Pressure Range: -0.1...0~0.01...100MPa(MPM489)
0~0.07...35MPa(MPM489PC3)
Overpressure: 1.5×FS (Max.110MPa)
Accuracy: ±0.5%FS
Long-term Stability: ±0.3%FS/year
Power Supply: 11~28V DC
Output: 4~20mA DC(2-wire), 0/1V~5/10V DC(3-wire)
0.5V~2.5/4.5V DC(3-wire)
Operation Temp.: -30~80℃, -10~70℃(Cable)
-10~60℃(Exia), -20~60℃(EXD)
Electrical Connection: Plug or Cable

MPM489PD1
Sanitary Type

Pressure Range: 0~0.1...3.5MPa
Overpressure: 1.5×FS (Max.110MPa)
Accuracy: ±0.5%FS
Long-term Stability: ±0.3%FS/year
Power Supply: 11~28V DC
Output: 4~20mA DC(2-wire)
Operation Temp.: -30~80℃
Process Connection: DN25 clamp

MDM490/MDM4901FL
DP Measurement
Oxygen DP Measurement

Pressure Range: 0~0.035...3.5MPa
Power Supply: 15~28VDC (2-wire/3-wire)
Output: 4~20mA DC (2-wire);
0/1~5V DC; 0~10/20mA DC (3-wire)
Zero Thermal Error: ±0.75%FS (±1.25%FS, ≤100kPa)
FS Thermal Error: ±0.75%FS (±1.25%FS, ≤100kPa)
Static Pressure Effect: ±0.05%FS, per 100kPa
Compensated Temp.: 0~50℃
Operation Temp.: -30~80℃; -10~70℃(Cable)

MDM491
Full Welded
Oxygen Measurement Optional

Pressure Range: 0~0.035...2MPa
Overpressure: 2×FS
Static Pressure: ≤20MPa
Accuracy: ±0.5%FS
Long-term Stability: Range>200kPa: ±0.2%FS/year
Range≤200kPa: ±0.5%FS/year
Operation Temp.: -30~80℃; -10~70℃(Cable)
Power Supply: 15~28V DC
Output: 4~20mA DC(2-wire); 0/1V~5/10V DC
0~10mA/20mA DC(3-wire)

MDM3051S
High Accuracy
HART Protocol

Pressure Range: (without drift): 0...0.1~3MPa (DP),
0...600Pa~40MPa(G/A)
Power Supply: 12~42V DC (Suggested 24V DC)
Accuracy: ±0.075%
Media Temp.: -30~400℃
Long-term Stability: ±0.1%/year (Min.)
Output: 4~20mA DC (2-wire), HART communication protocol, linearity or square root output optional
LCD display

MPM4760
LCD Indicator
Battery Power Supply

Pressure Range: 0~0.1...100MPa
Overpressure: 1.5×FS (Max.110MPa)
Accuracy: ±0.1%FS (Min.), ±0.25%FS (Typ.), ±0.5%FS (Max.)
Long-term Stability: ±0.25%FS/year
Power Supply: 8~28V DC
Output: 4~20mA DC, RS485
Load Capacity: 99 transmitters available
Operation Temp.: -30~80℃
Temperature Error: ±2℃
Electric Connection: GDM307 4-pin plug

MPM486
HART Protocol
LCD Indicator

Pressure Range: 0~0.01...100MPa (Pressure)
Overpressure: 1.5×FS (Max.110MPa)
Accuracy: ±0.1%FS (Typ.), ±0.25%FS (Max.)
Long-term Stability: ±0.25%FS/year
Operation Temp.: -20~80℃
Power Supply: 12~36V DC
Output: 4~20mA DC + HART
Display: LCD indicator, 2 or 3 keys to calibrate

MPM6861G/MPM6861GW
Wireless Transmission

Pressure Range: 0~0.02...70MPa
0~1...200mH$_2$O
Accuracy: ±0.5%FS
Communication Mode:
2G/Global Bands/NB-IoT
Power Supply: 8~28V DC
Protection: IP67
Operation Temp.:-20~70℃

MPM4501
Water Pump Application

Pressure Range: 0~0.6MPa, 1MPa, 1.6MPa, 2MPa
Accuracy: 1.0 (within compensated temperature range)
Overpressure: 2×FS
Burst Pressure: 6MPa
Power Supply: 5±0.5V DC; 8~36V DC
Output Signal: 0.5~4.5V DC; 4~20mA DC
Compensated Temp.: 0~70℃
Storage Temp.: -20~100℃
Media Compatibility:
Compatible with stainless steel 17-4PH and NBR
Protection: IP67

MPM4511
Microfused Strain Gauge

Pressure Range: 0~0.7...100MPa
Overpressure: 2×FS(Max.150MPa)
Burst Pressure: 5×FS(Max.200MPa);
Power Supply: 8~28V DC or 5V DC
Output: 4~20mA DC, 0.5~4.5V DC
Accuracy: 1.0
Compensated Temp.: -10~80℃
Operation Temp.: -40~125℃
Media Compatibility: All media that are compatible with 17-4PH stainless steel

MPM4150
Ceramic Element
Water Pump Application

Pressure Range: 0~1bar; 0~16bar; 0~35bar
Power Supply: 8~28V DC
Output: 4~20mA DC(2 wire)
Operation Temp.: -20~85℃
Accuracy: ±1%FS
Stability: ±0.5%FS
(It is not accumulated within one year.)

MPM4891
Embedded LED Display

Pressure Range: 0~0.01...40MPa
Overpressure: 1.5×FS (Max.110MPa)
Power Supply: 11~28V DC
Output: 4~20mA DC (2-wire)
Accuracy: ±0.5%FS
Operation Temp: -25~75℃
Segment LED display real-time pressure

MPM430
Low Pressure Measurement

Pressure Range:
-2.5...-0.5~0.5...5kPa(0D)
-10...-1~1...10kPa(0C)
0~2...20kPa(0B)
Overpressure: 400kPa
Accuracy: ±0.5%FS(Min.), ±1%FS(Typ.)
Long-term Stability: ±0.5%FS/year
Power Supply: 12~28V DC
Output: 4~20mA DC(2-wire)
Operation Temp.: -30~80℃
-10~70℃ (Cable) -10~60℃ (Exia)

MPM4530
High Temperature

Pressure Range: -0.1...0~0.01...160MPa(G)
0~0.025...60MPa(A)
Overpressure: 2×FS (Max.150MPa)
Power Supply: 10~30V DC (Suggested 24V DC)
Output: 4~20mA DC(2-wire)
Accuracy: ±0.25%FS,
±0.5%FS (Including Non-lin., Rep. and Hys.)
Long-term Stability: ±0.5%FS/year
Operation Temp.: -40~80℃
Temp. Range: 0~150℃ (General) Or Customized

MPM4730
RS485/HART Protocol

Pressure Range: -0.1...0~0.01...100MPa
Accuracy: ±0.075%FS(Min.),
±0.15%FS(Typ.), ±0.25%FS(Max.)
Long-term Stability: ±0.2%FS/year
Operation Temp.: -30~80℃;
-10~70℃(Cable)
Power Supply: 10~28V DC(RS485),
12~30V DC(HART)
Output: 4~20mA DC,
RS485/HART(optional)

MPM4780/MPM4780W
MODBUS-RTU Protocol

Pressure Range: -0.1...0~0.01...100MPa (Pressure)
0~3.5...200mH$_2$O (Level)
Overpressure: 1.5×FS (Max.110MPa)
Accuracy: ±0.5%FS
Long-term Stability: ±0.3%FS/year
Output: RS485 Interface（MODBUS-RTU protocol）
Load Capacity: 99 transmitters available for RS485 MODBUS
Operation Temp.: -30~80℃; -10~70℃(MPM4780W)
Measurement Error: ±2℃
Power Supply: 9~28V DC
Insulation: 100V, 100M
Protection: IP65(plug,cable); IP63(7-pin plug); IP68(Level)

MPM4781
Low Power Consumption 1mA

Pressure Range: 0~0.01...100MPa
Overpressure: 1.5×FS(Max.110MPa)
Power Supply: 4.5~30V DC
Output: RS485
Total Accuracy: ±0.1%FS, ±0.25%FS
Operation Temp: -25~80℃
Compensated Temp: -20~70℃

MPM489SY1
Φ20mm

Pressure Range: 0~0.7...100MPa
Overpressure: 1.5×FS (Max.110MPa)
Accuracy: ±0.5%FS(Typ)
Long-term Stability: ±0.3%FS/year
Operation Temp.: -20~80℃
Power Supply: 11~28V DC
Output: 4~20mA DC (2 wire)
Process Connection:
M12×1.5 male with face type seal
Electrical Connection: Cable

MPM4893/MPM4893W
Plastic Housing

Pressure Range: 0.02~0.1...35MPa(MPM4893)
2, 5, 10, 20, 50mH$_2$O(MPM4893W)
Overpressure: 1.5×FS (Max.35MPa)
Pressure Type: Gauge/ Absolute / Sealed Gauge
Accuracy: ±0.5%FS
Operation Temp.: -10~80℃
Power Supply: 11~28V DC
Output Signal: 4~20mA DC (2-wire);
0.5~4.5V DC (3-wire)
Load: ≤(U-11) / 0.02Ω (2-wire); ≥10k (3-wire)
Protection: IP68

MPM8320
Ceramic Element

Pressure Range: 0~0.2...3.5MPa(Type B);
0~0.2...20MPa(Type B or C)
Accuracy: ±1%FS
Long-term Stability: ±0.5%FS/year
Operation Temp.: -40~125℃(Type B);
-20~85℃ (Type C)
Power Supply: 4.5~5.5V DC; 8~28V DC
Output: 0.5~4.5V DC; 1~5V DC; 4~20mA DC

Switch

MPM4881/MPM4881W/MDM4881/MTM4881
Pressure/Level/ Differential Pressure/
Temperature Transmitting Controller

Range: 0~0.01...60MPa(MPM4881)
1, 2, 5, 10, 20, 50, 100, 200mH$_2$O(MPM4881W)
0~0.035... 3.5MPa(MDM4881)
-30~150℃ / -22~302 ℉(MTM4881)
Display: 4 digit 0.56 inch 14-segment LED display
Power Supply: Non Intrinsically Safe:
(220±44)V AC/22~32V DC
Output: 4~20mA DC, 0~10V DC
Output Mode: 5 relays, normally open or close contact
Switch Delay: 0s~99s
Relay Life: ≥10,000,000times/load (Min.);
≥100,000times/load (Max.)

MPM5581/MTM5581/MPM5589
Pressure/Temperature/Level Switch

Range: 0~0.1...60MPa(MPM5581)
1, 3, 5H$_2$0(MPM5589)
Temp. Range:
-50~200℃(-58~392℉) (MTM5581)
Range Drift: 25%FS~100%FS (MPM5581, MPM5589)
Accuracy: ±0.5%FS(MPM5581);
±1℃(±2℉) (MTM5581)
±2%FS (MPM5589)
Long-term Stability: ±0.3%FS/year(Max.)
Screen Display: Blue 128*64 OLED
Dispaly Board: PMMA

Differential Pressure Sensor

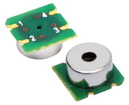
MDM291
Full Welded

Pressure Range: 0~0.035...2MPa
Power Supply: ≤2.0mA DC; ≤10V DC
FS Output: ≥70mV DC
Nonlinearity: ±0.2%FS (Typ.), ±0.25%FS (Max.)
Repeatability: ±0.05%FS (Typ.), ±0.075%FS (Max.)
Hysteresis: ±0.05%FS (Typ.), ±0.075% (Max.)
Zero Temp. Error: ±0.5%FS (Typ.), ±0.75%FS (Max.)
FS Temp. Error: ±0.5%FS (Typ.), ±0.75%FS (Max.)
Compensated Temp.: 0~70˚C

MDM290
Assembled Type

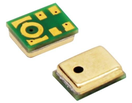
Pressure Range: 0~0.035...3.5MPa
Power Supply: ≤2.0mA DC; ≤10V DC
FS Output: ≥60mV DC
Nonlinearity: ±0.15%FS (Typ.), ±0.25%FS (Max.)
Repeatability: ±0.05%FS (Typ.), ±0.075%FS (Max.)
Hysteresis: ±0.05%FS (Typ.), ±0.075% (Max.)
Zero Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
FS Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
Compensated Temp.: 0~50˚C

Piezoresistive Pressure Sensor



MPM150
PCB Packaged
5.5x5.5x2.6mm

Pressure Range: -100~10...200kPa
Bridge Resistance: 4~6kΩ
Zero Output: -15~15mV (@5V)
FS Output: ≥30mV (@5V)
Nonlinearity: ≤±0.3%FS; Hysteresis: ≤±0.3%FS
Temperature Coefficient of Resistance:
1600ppm/˚C≤TCRb≤2800ppm/˚C
Zero Temp. Error:
-0.08%FS/˚C≤TCZ≤0.08%FS/˚C (@5V);
-0.05%FS/˚C≤TCZ≤0.05%FS/˚C (@1mA);
FS Temp. Error:
-0.25%FS/˚C≤TCSP≤-0.17%FS/˚C (@5V);
-0.05%FS/˚C≤TCSP≤0.05%FS/˚C (@1mA);



MPM151
PCB Packaged
4.72x3.76x1.45mm

Pressure Range: -100~10...200kPa
Bridge Resistance: 4~6kΩ
Zero Output: -15~15mV (@5V)
FS Output: ≥30mV (@5V)
Nonlinearity: ≤±0.3%FS; Hysteresis: ≤±0.3%FS
Temperature Coefficient of Resistance:
1600ppm/˚C≤TCRb≤2800ppm/˚C
Zero Temp. Error:
-0.08%FS/˚C≤TCZ≤0.08%FS/˚C (@5V);
-0.05%FS/˚C≤TCZ≤0.05%FS/˚C (@1mA);
FS Temp. Error:
-0.25%FS/˚C≤TCSP≤-0.17%FS/˚C (@5V);
-0.05%FS/˚C≤TCSP≤0.05%FS/˚C (@1mA);

MPM160
SOP/DIP
7x7x10mm (SOP)/8.5x8.5x14.1mm (DIP)

Pressure Range: -100~10...200kPa
Bridge Resistance: 4~6kΩ
Zero Output: -15~15mV (@5V)
FS Output: ≥30mV (@5V)
Nonlinearity: ≤±0.3%FS; Hysteresis: ≤±0.3%FS
Temperature Coefficient of Resistance:
1600ppm/˚C≤TCRb≤2800ppm/˚C
Zero Temp. Error:
-0.08%FS/˚C≤TCZ≤0.08%FS/˚C(@5V);
-0.05%FS/˚C≤TCZ≤0.05%FS/˚C(@1mA);
FS Temp. Error:
-0.25%FS/˚C≤TCSP≤-0.17%FS/˚C(@5V);
-0.05%FS/˚C≤TCSP≤0.05%FS/˚C(@1mA);

MPM7848
PCB Packaged, Diameter 10mm
Height 5.35mm, Standard Voltage Output

Pressure Range: 0~0.35...1.6MPa
Output: 0.5~4.5V(@5V)
Overpressure: 1.5×FS
Accuracy: ±1.5%FS
Zero Temp. Error: ≤±0.03%FS/˚C
FS Temp. Error: ≤±0.03%FS/˚C
Compensated Temp.: 0˚C~60˚C

MPM7857
DIP, 8.5x8.5x14.1mm
Standard/Proportional Voltage Output

Pressure Range: -100...0~5...200kPa
Output: 0.5~4.5V (@5V), 0.2~2.7V (@3.3V)
Overpressure: 2×FS
Accuracy: 0.5%FS, 1.0%FS, 1.5%FS
Zero Temp. Drift: ≤±0.03%FS/˚C
FS Temp. Drift: ≤±0.03%FS/˚C
Compensated Temp.: 0~60˚C

MPM7858
SOP, 7.3x7.3x9.69mm
Standard Voltage Output

Pressure Range: 0~100...700kPa
Output: 0.5~4.5V DC (@5V)
Overpressure:
2×FS (Range≤350kPa)
1.5×FS (Range≥500kPa)
Accuracy: ±1.5%FS
Zero Temp. Error: ≤±0.03%FS/˚C
FS Temp. Error: ≤±0.03%FS/˚C
Compensated Temp.: 0~60˚C

MPM161
SOP/DIP
7x7x10mm (SOP)/8.5x8.5x14.1mm (DIP)

Pressure Range: -0.1~0.7...2MPa
Bridge Resistance: 4~6kΩ
Zero Output: -15~15mV (@5V)
FS Output: ≥50mV (@5V)
Nonlinearity: ±0.3%FS
Hysteresis: ±0.3%FS
Repeatability: ±0.3%FS
Temperature Coefficient of Resistance:
300ppm/˚C≤TCRb≤700ppm/˚C
Zero Temp. Error:
-0.06%FS/˚C≤TCZ≤0.06%FS/˚C (@5V/@1mA)
FS Temp. Error:
-0.06%FS/˚C≤TCSP≤0.06%FS/˚C(@5V/@1mA)

MPM162
SOP
7.3x7.3x9.69mm

Pressure Range: 0~100...700kPa
Bridge Resistance: 4~6kΩ
Zero Output: -30~30mV (@5V)
FS Output: ≥50mV (@5V)
Nonlinearity: ≤±0.3%FS
Hysteresis: ≤±0.3%FS
Repeatability: ≤±0.3%FS
Zero Temp. Error: -0.2%FS/˚C≤TCZ≤0.2%FS/˚C(@5V)
FS Temp. Error: -0.25%FS/˚C≤TCSP≤-0.17%FS/˚C(@5V)

MPM7847
PCB Packaged, 13x13x19.9mm
Standard/Proportional Voltage Output

Pressure Range: -100~2.5...1000kPa
Output: 0.5~4.5V (@5V); 0.2~2.7V (@3.3V)
Overpressure:
2×FS (Range<500kPa)
1.5×FS (Range≥500kPa)
Accuracy: ±0.5%FS; ±1.0%FS; ±2.0%FS
Zero Temp. Error: ≤±0.03%FS/˚C
FS Temp. Error: ≤±0.03%FS/˚C
Compensation Temp.: 0~60˚C

MPM7867
SOP , 13x13x19.9mm
I²C Output

Pressure Range: -100~2.5...200kPa
Output: I²C (@5V)
SDA/SCL Pull-up resistance: 4.7kΩ
Overpressure: 2×FS
Accuracy: 0.5%FS, 1.0%FS
Zero temp. drift: ≤±0.03%FS/˚C
FS temp. drift: ≤±0.03%FS/˚C
Compensated temp.: 0~60˚C

MPM7868
PCB Packaged, 5.6x4.7x1.76mm
Standard Voltage Output

Pressure Range: 0~100...250kPa
Output: 0.5~4.5V DC (@5V)
Overpressure: 2×FS
Accuracy: ±1.5%FS
Zero Temp. Error: ≤±0.03%FS/˚C
FS Temp. Error: ≤±0.03%FS/˚C
Compensated Temp.: 0~60˚C

ISO9001:2015 ISO14001:2015 OHSAS18001:2007

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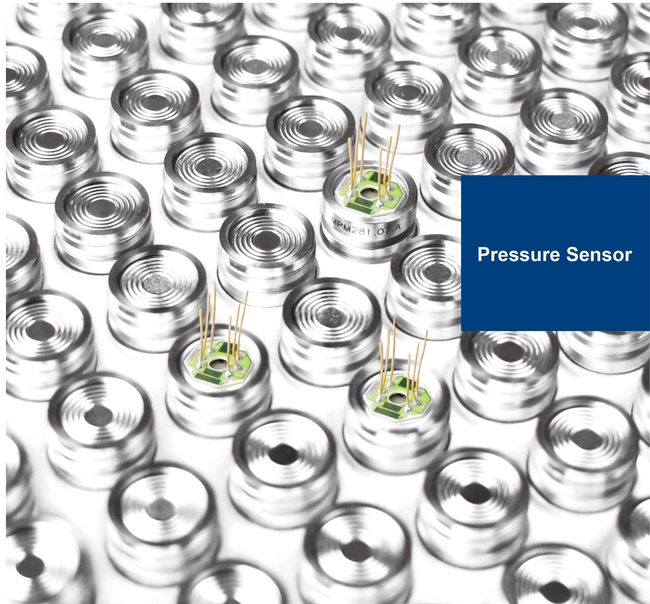

Pressure Sensor

Pressure Sensor

MPM280
General
φ19x15mm

Pressure Range: 0~0.02...100MPa
Power Supply: ≤2.0mA DC; ≤10V DC
FS Output: ≥70mV DC
Nonlinearity: ±0.15%FS (Typ.), ±0.25%FS (Max.)
Repeatability: ±0.05%FS (Typ.), ±0.075%FS (Max.)
Hysteresis: ±0.05%FS (Typ.), ±0.075% (Max.)
Zero Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
FS Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
Compensated Temp.: 0~50˚C
Vacuum measurement available

MPM280F
Flush Diaphragm
φ19x13.5mm

Pressure Range: 0~0.1...3.5MPa
Power Supply: ≤2.0mA DC; ≤10V DC
FS Output: ≥70mV DC
Nonlinearity: ±0.15%FS (Typ.), ±0.25%FS (Max.)
Repeatability: ±0.05%FS (Typ.), ±0.075%FS (Max.)
Hysteresis: ±0.05%FS (Typ.), ±0.075% (Max.)
Zero Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
FS Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
Compensated Temp.: 0~50˚C

MPM280PC1/MPM280PC2/MPM280PC3
M20x1.5, R1/2, G1/2

Pressure Range: 0~0.1...35MPa
Power Supply: ≤2.0mA DC; ≤10V DC
FS Output: ≥70mV DC
Nonlinearity: ±0.15%FS (Typ.), ±0.25%FS (Max.)
Repeatability: ±0.05%FS (Typ.), ±0.075%FS (Max.)
Hysteresis: ±0.05%FS (Typ.), ±0.075% (Max.)
Zero Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
FS Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
Compensated Temp.: 0~50˚C

MPM280/MPM281
Assembled/Welded Type

0~0.02...70MPa
O-ring sealing (Assembled)
Without O-ring (Welded)
Various connections optional
Customized design available

MPM280PD1
Sanitary type

0~0.1...3.5MPa
Outer Diameter Φ32mm
Standard DN25 clamp connection
Suitable for various viscous media

MPM280PD1S
Sanitary Type
With Dissipation Fin

0~0.1...2MPa
Outer Diameter Φ32mm
Standard DN25 clamp connection
Suitable for various viscous medium

MPM281
-10~80˚C Temperature Compensated
φ19x11.5mm

Pressure Range: 0~0.007...100MPa
Power Supply: ≤2.0mA DC; ≤10V DC
FS Output: ≥70mV DC, ≥45mV DC (0~7kPa)
Nonlinearity: ±0.15%FS (Typ.), ±0.20%FS (Max.)
Repeatability: ±0.05%FS (Typ.), ±0.075%FS (Max.)
Hysteresis: ±0.05%FS (Typ.), ±0.075% (Max.)
Zero Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
±0.75%FS (Typ.), ±1.0%FS (Max.) (0~7kPa)
FS Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
Compensated Temp.: -10~80˚C; 0~70˚C (0~7kPa, 20kPa, 35kPa)
Vacuum measurement available

MPM281VC
Constant Voltage Supply
φ19x11.5mm

Pressure Range: 0~0.035...100MPa
Power Supply: ≤10V DC
FS Output: 100±2mV DC
Nonlinearity: ±0.2%FS (Typ.), ±0.25%FS (Max.)
Repeatability: ±0.05%FS (Typ.), ±0.075%FS (Max.)
Hysteresis: ±0.05%FS (Typ.), ±0.075% (Max.)
Zero Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
FS Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
Compensated Temp.: 0~70˚C

MPM3808
Digital I²C Output

Pressure Range: -0.1...0~0.01...3.5MPa
Pressure Type: Gauge; Absolute; Sealed Gauge
Overpressure: 1.5×FS
Accuracy: ±0.5%FS (Pressure)
±1.5˚C (Temperature)
Power Supply: (5±0.1)V DC; (3.3±0.1)V DC

MPM4891B
Pressure Range Adjustable

Pressure Range: 0~0.01...40MPa
Overpressure: 1.5×FS (Max.110MPa)
Power Supply: 11~28V DC
Output: 4mA~20mA DC (2-wire)
Accuracy: ±0.5%FS
Operation Temp.: -25~75˚C

MCM211
Compound Sensor
Integrated with Temperature and Differential Pressure

Pressure Range: 0~0.035...3.5MPa
Static Pressure: 0~1...20MPa
Temperature: PT100/PT1000
Power Supply: ≤2.0mA DC; ≤10V DC
FS Output: ≥60mV DC
Nonlinearity: ±0.15%FS (Typ.), ±0.25%FS (Max.)
Repeatability: ±0.05%FS (Typ.), ±0.075%FS (Max.)
Hysteresis: ±0.05%FS (Typ.), ±0.075% (Max.)
Zero Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
FS Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
Compensated Temp.: 0~50˚C

MPM280Au
Gold plated Diaphragm

0~0.02...100MPa
Outer Diameter Φ19mm

Power Supply: ≤2.0mA DC; ≤10V DC
FS Output: ≥70mV DC
Nonlinearity: ±0.15%FS (Typ.), ±0.25%FS (Max.)
Repeatability: ±0.05%FS (Typ.), ±0.075%FS (Max.)
Hysteresis: ±0.05%FS (Typ.), ±0.075% (Max.)
Zero Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
FS Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
Compensated Temp.: 0~50˚C
Vacuum measurement available

MPM280Ti
Titanium Diaphragm
Titanium Housing

-0.1...0~0.1...70MPa
Outer Diameter Φ19mm

MPM280HH
Hastelloy C Diaphragm
Hastelloy C Housing

-0.1...0~0.1...35MPa
Outer Diameter Φ19mm

MPM280TS
Tantalum Diaphragm
SS316L Housing

-0.1...0~0.1...35MPa
Outer Diameter Φ19mm

MPM280TH
Tantalum Diaphragm
Hastelloy C Housing

-0.1...0~0.1...35MPa
Outer Diameter Φ19mm

MPM285
Φ15×10.5mm

Pressure Range: 0~0.1...3.5MPa
Power Supply: ≤2.0mA DC; ≤10V DC
FS Output: ≥50mV DC
Nonlinearity: ±0.2%FS (Typ.), ±0.25%FS (Max.)
Repeatability: ±0.05%FS (Typ.), ±0.075%FS (Max.)
Hysteresis: ±0.05%FS (Typ.), ±0.075%FS (Max.)
Zero Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
FS Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
Compensated Temp.: 0~70˚C

MPM286
Φ19×6.5mm

Pressure Range: 0~0.02...3.5MPa
Power Supply: ≤2.0mA DC; ≤10V DC
FS Output: ≥50mV DC
Nonlinearity: ±0.15%FS (Typ.), ±0.25%FS (Max.)
Repeatability: ±0.05%FS (Typ.), ±0.075%FS (Max.)
Hysteresis: ±0.05%FS (Typ.), ±0.075%FS (Max.)
Zero Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
FS Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
Compensated Temp.: 0~50˚C

MPM287
Φ17×9mm

Pressure Range: 0~0.1...3.5MPa
Power Supply: ≤2.0mA DC; ≤10V DC
FS Output: ≥50mV DC
Nonlinearity: ±0.2%FS (Typ.), ±0.25%FS (Max.)
Repeatability: ±0.05%FS (Typ.), ±0.075%FS (Max.)
Hysteresis: ±0.05%FS (Typ.), ±0.075%FS (Max.)
Zero Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
FS Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
Compensated Temp.: 0~70˚C

MPM283I/MPM283II
φ16.8x12mm
φ12.6x10.5mm

Pressure Range: 0~0.2...100MPa
Power Supply: ≤2.0mA DC; ≤10V DC
FS Output: ≥70mV DC
Nonlinearity: ±0.15%FS (Typ.), ±0.20%FS (Max.)
Repeatability: ±0.05%FS (Typ.), ±0.075%FS (Max.)
Hysteresis: ±0.05%FS (Typ.), ±0.075% (Max.)
Zero Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
FS Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
Compensated Temp.: -10~80˚C

MPM283II
Full Welded
M8 Connection

Pressure Range: 0~0.2...40MPa
Power Supply: ≤2.0mA DC; ≤10V DC
FS Output: ≥70mV DC
Nonlinearity: ±0.15%FS (Typ.), ±0.20%FS (Max.)
±0.3%FS (Typ.), ±0.35%FS (Max.)
Repeatability: ±0.05%FS (Typ.), ±0.075%FS (Max.)
Hysteresis: ±0.05%FS (Typ.), ±0.075% (Max.)
Zero Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
FS Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
FS Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
Compensated Temp.: -10~80˚C
Process Connection: M5 x 0.8

Differential Pressure Sensor

MDM290-M
Outer Resistors Temperature Compensated
φ19x26mm

Pressure Range: 0~0.035...3.5MPa
Power Supply: ≤2.0mA DC; ≤10V DC
FS Output: ≥60mV DC
Nonlinearity: ±0.15%FS (Typ.), ±0.25%FS (Max.)
Repeatability: ±0.05%FS (Typ.), ±0.075%FS (Max.)
Hysteresis: ±0.05%FS (Typ.), ±0.075% (Max.)
Zero Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
FS Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
Compensated Temp.: 0~50˚C

MDM290-L
Laser Trimmed Thick-film Circuit Board
φ19x26mm

Pressure Range: 0~0.035...3.5MPa
Power Supply: ≤2.0mA DC; ≤10V DC
FS Output: ≥60mV DC
Nonlinearity: ±0.15%FS (Typ.), ±0.25%FS (Max.)
Repeatability: ±0.05%FS (Typ.), ±0.075%FS (Max.)
Hysteresis: ±0.05%FS (Typ.), ±0.075% (Max.)
Zero Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
FS Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
Compensated Temp.: 0~50˚C

MDM293
φ12.6x18mm

Pressure Range: 0~0.2...3.5MPa
Power Supply: ≤2.0mA DC; ≤10V DC
FS Output: ≥60mV DC
Nonlinearity: ±0.15%FS (Typ.), ±0.25%FS (Max.)
Repeatability: ±0.05%FS (Typ.), ±0.075%FS (Max.)
Hysteresis: ±0.05%FS (Typ.), ±0.075% (Max.)
Zero Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
FS Temp. Error: ±0.75%FS (Typ.), ±1.0%FS (Max.)
Compensated Temp.: 0~70˚C

MTMZP

(Waterproof Box/ Hirschmann) Temperature Transmitter

Features: for applications of metallurgy, hydropower, heating
Various structures and diverse outputs
Sensor: thermal resistance (typical: PT100 PT1000)
thermocouple (typical: K, S, B, R type etc.)
Output: current signal (typical: 4~20mADC)
voltage signal (typical: 1~5VDC)
Range: -200 °C~1600 °C
Accuracy: ±1.0%

WZP

Temperature Sensor

Features: for applications of various industrial environmental temperature, civil environment temperature measurement
Installation: fixed thread, movable thread, looped thread, national standard flange, clamp etc
Sensor: thermal resistance (typical: PT100 PT1000)
thermocouple (typical: K, S, B, R type etc.)
Output: resistance value (thermal resistance)
voltage value (thermocouple)
Range: -200 °C~1600 °C
Accuracy: Class A (thermal resistance), Class I (thermocouple)

ISO9001:2015 ISO14001:2015 OHSAS18001:2007

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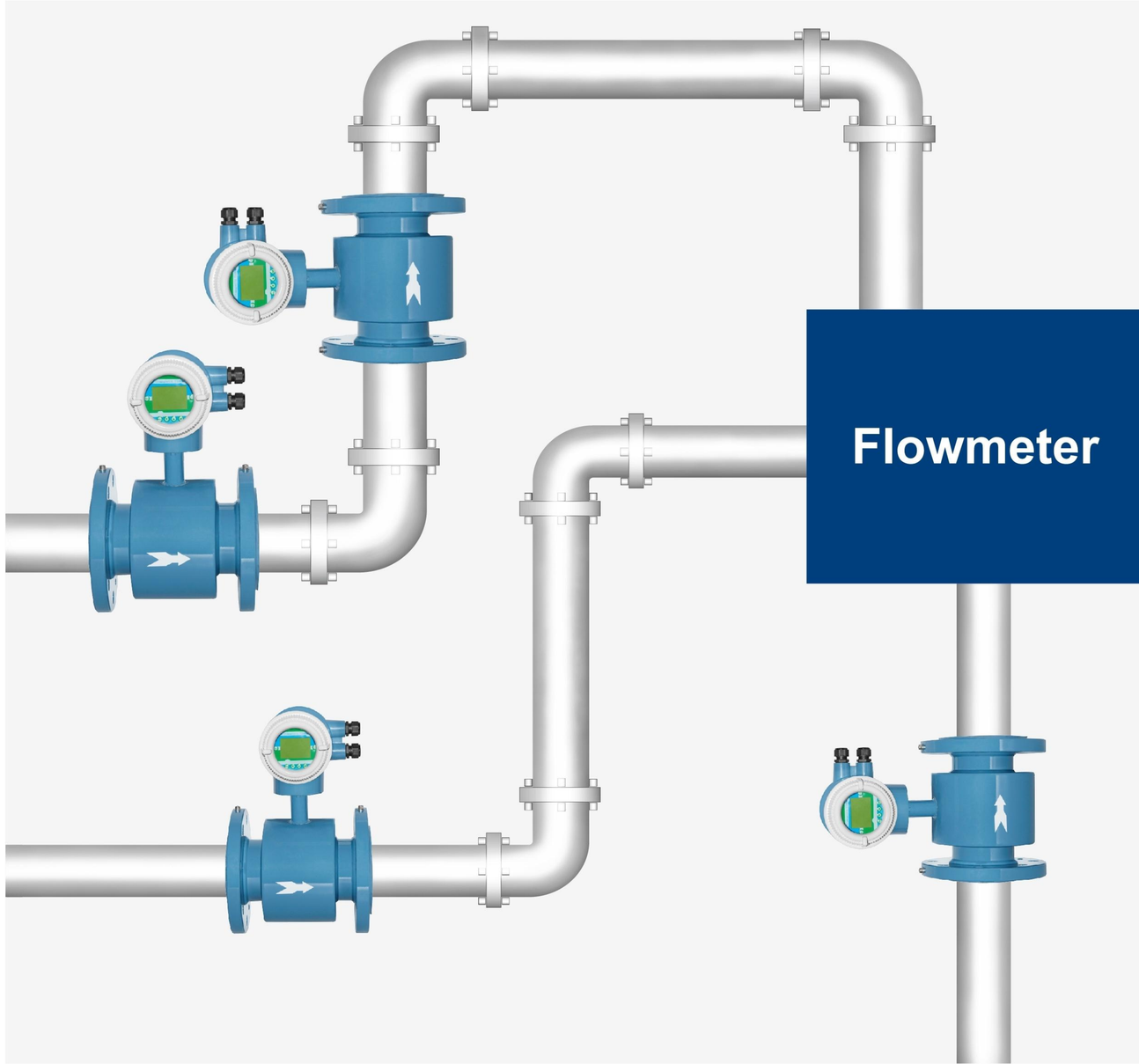

Flowmeter