

# Smart Pressure Transmitter with Low Power Consumption & Digital Output

## MPM4736



### Applications

- Hydrology and water resources
- Petrochemical
- Electric power
- Machinery manufacturing
- Hydraulic and pneumatic control

### Features

- Extremely low power consumption, automatic sleep, low power consumption
- Pressure and temperature measurement
- Digital temperature compensation and non-linear correction technology
- RS485 communication interface

### Introduction

MPM4736 Pressure Transmitter is a high-accuracy, high-stability smart pressure measurement instrument. It utilizes a piezoresistive OEM pressure sensor and a smart transmitter processing circuit, enhanced by a specialized algorithm to achieve precise measurement. The transmitter is capable of measuring both pressure and temperature, with data output via the RS485 interface. It features ultra-low power consumption, automatically entering standby mode when not communicating, reducing standby power consumption to as low as 10μA.

### Specifications

|                                   |                                                          |
|-----------------------------------|----------------------------------------------------------|
| Range                             | -100kPa...0kPa ~ 10kPa...100MPa                          |
| Overpressure                      | ≤ 2 times FS or 110MPa (min. Value is valid)             |
| Pressure type                     | Gauge G, Absolute A, Sealed Gauge S, Positive/Negative N |
| Accuracy                          | Refer to "Measuring Range & Accuracy Table"              |
| Temperature accuracy <sup>a</sup> | ±0.5° C (-20° C ~ 80° C)                                 |
|                                   | ±0.75° C (-30° C ~ -20° C)                               |
| Long-term stability               | ±0.25%FS/year                                            |
| Compensation temperature          | -10° C ~ 70° C                                           |
| Operating temperature             | -30° C ~ 80° C (B1, B3)                                  |
|                                   | -20° C ~ 70° C (B2, cable material: PE, PVC)             |
|                                   | -20° C ~ 80° C (B2, cable material: PUR)                 |
| Storage temperature               | -40° C ~ 85° C (B1, B3)                                  |
|                                   | -20° C ~ 85° C (B2)                                      |
| Vibration                         | 20g, 20Hz ~ 2000Hz                                       |
| Shock                             | 20g, 11ms                                                |
| IP rating                         | IP65                                                     |
| Weight                            | ≤ 240g                                                   |

<sup>a</sup> Temperature accuracy: The measured temperature is the ambient temperature.

Measuring Range & Accuracy Table

| Gauge Pressure G |                 |          |              |      |      |                 |          |              |      |
|------------------|-----------------|----------|--------------|------|------|-----------------|----------|--------------|------|
| Unit             | Measuring Range | Accuracy | Overpressure | Code | Unit | Measuring Range | Accuracy | Overpressure | Code |
| kPa              | 0 - 7           | ±0.5%FS  | 15           | K007 | mbar | 0 - 70          | ±0.5%FS  | 150          | m070 |
|                  | 0 - 10          |          | 20           | K010 |      | 0 - 100         |          | 200          | m100 |
|                  | 0 - 20          |          | 40           | K020 |      | 0 - 200         | ±0.25%FS | 500          | m200 |
|                  | 0 - 25          | ±0.25%FS | 50           | K025 |      | 0 - 250         |          | 500          | m250 |
|                  | 0 - 40          |          | 100          | K040 |      | 0 - 400         |          | 1000         | m400 |
|                  | 0 - 50          |          | 100          | K050 |      | 0 - 500         |          | 1000         | m500 |
|                  | 0 - 60          |          | 100          | K060 |      | 0 - 600         |          | 1200         | m600 |
|                  | 0 - 70          |          | 100          | K070 |      | 0 - 700         |          | 1400         | m700 |
|                  | 0 - 80          |          | 200          | K080 |      | 0 - 800         |          | 1600         | m800 |
|                  | 0 - 90          |          | 200          | K090 |      | 0 - 900         |          | 1800         | m900 |
|                  | 0 - 100         |          | 200          | K100 | bar  | 0 - 1           | ±0.25%FS | 2            | B001 |
|                  | 0 - 160         |          | 300          | K160 |      | 0 - 1.6         |          | 3            | B1D6 |
|                  | 0 - 200         |          | 400          | K200 |      | 0 - 2           |          | 4            | B002 |
|                  | 0 - 250         |          | 500          | K250 |      | 0 - 2.5         |          | 5            | B2D5 |
|                  | 0 - 300         |          | 600          | K300 |      | 0 - 3           |          | 6            | B003 |
|                  | 0 - 400         |          | 1000         | K400 |      | 0 - 4           |          | 10           | B004 |
|                  | 0 - 500         |          | 1000         | K500 |      | 0 - 5           |          | 10           | B005 |
|                  | 0 - 600         |          | 1000         | K600 |      | 0 - 6           |          | 10           | B006 |
|                  | 0 - 700         |          | 1400         | K700 |      | 0 - 7           |          | 14           | B007 |
|                  | 0 - 800         |          | 1600         | K800 |      | 0 - 8           |          | 16           | B008 |
|                  | 0 - 900         |          | 1800         | K900 |      | 0 - 9           |          | 18           | B009 |
| MPa              | 0 - 1           | ±0.25%FS | 2            | M1D0 |      | 0 - 10          |          | 20           | B010 |
|                  | 0 - 1.6         |          | 3            | M1D6 |      | 0 - 16          |          | 30           | B016 |
|                  | 0 - 2           |          | 4            | M2D0 |      | 0 - 20          |          | 40           | B020 |
|                  | 0 - 2.5         |          | 5            | M2D5 |      | 0 - 25          |          | 50           | B025 |
|                  | 0 - 3           |          | 6            | M3D0 |      | 0 - 30          |          | 60           | B030 |
|                  | 0 - 3.5         |          | 6            | M3D5 |      | 0 - 35          |          | 60           | B035 |
| psi              | 0 - 1.5         | ±0.5%FS  | 3            | P1D5 |      |                 |          |              |      |
|                  | 0 - 3           | ±0.25%FS | 6            | P003 |      |                 |          |              |      |
|                  | 0 - 5           |          | 10           | P005 |      |                 |          |              |      |
|                  | 0 - 10          |          | 15           | P010 |      |                 |          |              |      |
|                  | 0 - 15          |          | 20           | P015 |      |                 |          |              |      |
|                  | 0 - 30          |          | 45           | P030 |      |                 |          |              |      |
|                  | 0 - 60          |          | 150          | P060 |      |                 |          |              |      |
|                  | 0 - 100         |          | 150          | P100 |      |                 |          |              |      |
|                  | 0 - 160         |          | 300          | P160 |      |                 |          |              |      |
|                  | 0 - 200         |          | 300          | P200 |      |                 |          |              |      |
|                  | 0 - 300         |          | 450          | P300 |      |                 |          |              |      |
|                  | 0 - 500         |          | 750          | P500 |      |                 |          |              |      |

# Sealed Gauge Pressure S

| Unit | Measuring Range | Accuracy | Overpressure | Code | Unit | Measuring Range | Accuracy | Overpressure | Code |
|------|-----------------|----------|--------------|------|------|-----------------|----------|--------------|------|
| MPa  | 0 - 3.5         | ±0.25%FS | 7            | M3D5 | bar  | 0 - 35          | ±0.25%FS | 70           | B035 |
|      | 0 - 4           |          | 10           | M4D0 |      | 0 - 40          |          | 100          | B040 |
|      | 0 - 5           |          | 10           | M5D0 |      | 0 - 50          |          | 100          | B050 |
|      | 0 - 6           |          | 10           | M6D0 |      | 0 - 60          |          | 100          | B060 |
|      | 0 - 7           |          | 10           | M7D0 |      | 0 - 70          |          | 100          | B070 |
|      | 0 - 8           |          | 15           | M8D0 |      | 0 - 80          |          | 150          | B080 |
|      | 0 - 9           |          | 15           | M9D0 |      | 0 - 90          |          | 150          | B090 |
|      | 0 - 10          |          | 15           | M010 |      | 0 - 100         |          | 150          | B100 |
|      | 0 - 16          |          | 30           | M016 |      | 0 - 160         |          | 300          | B160 |
|      | 0 - 20          |          | 30           | M020 |      | 0 - 200         |          | 300          | B200 |
|      | 0 - 25          |          | 37.5         | M025 |      | 0 - 250         |          | 450          | B250 |
|      | 0 - 30          |          | 45           | M030 |      | 0 - 300         |          | 525          | B300 |
|      | 0 - 35          |          | 52.5         | M035 |      | 0 - 350         |          | 375          | B350 |
|      | 0 - 40          |          | 60           | M040 |      | 0 - 400         |          | 600          | B400 |
|      | 0 - 50          |          | 75           | M050 |      | 0 - 500         |          | 750          | B500 |
|      | 0 - 60          |          | 90           | M060 |      | 0 - 600         |          | 900          | B600 |
|      | 0 - 70          |          | 100          | M070 |      | 0 - 700         |          | 1000         | B700 |
|      | 0 - 80          |          | 100          | M080 |      | 0 - 800         |          | 1000         | B800 |
|      | 0 - 90          |          | 100          | M090 |      | 0 - 900         |          | 1000         | B900 |
|      | 0 - 100         |          | 110          | M100 |      | 0 - 1000        |          | 1100         | B01K |

|     |           |          |       |      |
|-----|-----------|----------|-------|------|
| psi | 0 - 500   | ±0.25%FS | 750   | P500 |
|     | 0 - 600   |          | 1500  | P600 |
|     | 0 - 700   |          | 1500  | P700 |
|     | 0 - 800   |          | 1500  | P800 |
|     | 0 - 900   |          | 1500  | P900 |
|     | 0 - 1000  |          | 1500  | P01K |
|     | 0 - 2000  |          | 3000  | P02K |
|     | 0 - 3000  |          | 4500  | P03K |
|     | 0 - 4000  |          | 6000  | P04K |
|     | 0 - 5000  |          | 7500  | P05K |
|     | 0 - 6000  |          | 9000  | P06K |
|     | 0 - 7000  |          | 10500 | P07K |
|     | 0 - 8000  |          | 12000 | P08K |
|     | 0 - 9000  |          | 13500 | P09K |
|     | 0 - 10000 |          | 15000 | P10K |

## Absolute Pressure A

| Unit | Measuring Range | Accuracy | Overpressure | Code | Unit | Measuring Range | Accuracy | Overpressure | Code |
|------|-----------------|----------|--------------|------|------|-----------------|----------|--------------|------|
| kPa  | 0 - 40          | ±0.5%FS  | 100          | K040 | bar  | 0-1             | ±0.5%FS  | 2            | B001 |
|      | 0 - 50          |          | 100          | K050 |      | 0-1.6           |          | 3            | B1D6 |
|      | 0 - 60          |          | 100          | K060 |      | 0-2             |          | 4            | B002 |
|      | 0 - 70          |          | 100          | K070 |      | 0-2.5           |          | 5            | B2D5 |
|      | 0 - 80          |          | 200          | K080 |      | 0-3             |          | 6            | B003 |
|      | 0 - 90          |          | 200          | K090 |      | 0-4             |          | 10           | B004 |
|      | 0 - 100         |          | 200          | K100 |      | 0-5             |          | 10           | B005 |
|      | 0 - 160         |          | 300          | K160 |      | 0-6             |          | 10           | B006 |
|      | 0 - 200         | ±0.25%FS | 400          | K200 |      | 0-7             | ±0.25%FS | 14           | B007 |
|      | 0 - 250         |          | 500          | K250 |      | 0-8             |          | 16           | B008 |
|      | 0 - 300         |          | 600          | K300 |      | 0-9             |          | 18           | B009 |
|      | 0 - 400         |          | 1000         | K400 |      | 0-10            |          | 20           | B010 |
|      | 0 - 500         |          | 1000         | K500 |      | 0-16            |          | 30           | B016 |
|      | 0 - 600         |          | 1000         | K600 |      | 0-20            |          | 40           | B020 |
|      | 0 - 700         |          | 1400         | K700 |      | 0-25            |          | 50           | B025 |
|      | 0 - 800         |          | 1600         | K800 |      | 0-30            |          | 60           | B030 |
|      | 0 - 900         |          | 1800         | K900 |      | 0-35            |          | 60           | B035 |
| MPa  | 0 - 1           | ±0.25%FS | 2            | M1D0 |      | 0-40            |          | 100          | B040 |
|      | 0 - 1.6         |          | 3            | M1D6 |      | 0-50            |          | 100          | B050 |
|      | 0 - 2           |          | 4            | M2D0 |      | 0-60            |          | 100          | B060 |
|      | 0 - 2.5         |          | 5            | M2D5 |      | 0-70            |          | 140          | B070 |
|      | 0 - 3           |          | 6            | M3D0 |      | 0-80            |          | 160          | B080 |
|      | 0 - 3.5         |          | 6            | M3D5 |      | 0-90            |          | 180          | B090 |
|      | 0 - 4           |          | 6            | M4D0 |      | 0-100           |          | 200          | B100 |
|      | 0 - 5           |          | 10           | M5D0 |      | 0-160           |          | 300          | B160 |
|      | 0 - 6           |          | 10           | M6D0 |      | 0-200           |          | 300          | B200 |
|      | 0 - 7           |          | 14           | M7D0 |      | 0-250           |          | 375          | B250 |
|      | 0 - 8           |          | 16           | M8D0 |      | 0-300           |          | 350          | B300 |
|      | 0 - 9           |          | 18           | M9D0 |      | 0-350           |          | 525          | B350 |
|      | 0 - 10          |          | 20           | M010 |      | 0-400           |          | 600          | B400 |
|      | 0 - 16          |          | 30           | M016 |      | 0-500           |          | 750          | B500 |
|      | 0 - 20          |          | 30           | M020 |      | 0-600           |          | 900          | B600 |
|      | 0 - 25          |          | 37.5         | M025 |      | 0-700           |          | 1000         | B700 |
|      | 0 - 30          |          | 45           | M030 |      | 0-800           |          | 1000         | B800 |
|      | 0 - 35          |          | 52.5         | M035 |      | 0-900           |          | 1000         | B900 |
|      | 0 - 40          |          | 60           | M040 |      | 0-1000          |          | 1100         | B01K |
|      | 0 - 50          |          | 75           | M050 | psi  | 0 - 5           | ±0.5%FS  | 10           | P005 |
| mbar | 0 - 60          | ±0.25%FS | 90           | M060 |      | 0 - 10          |          | 15           | P010 |
|      | 0 - 70          |          | 100          | M070 |      | 0 - 15          |          | 20           | P015 |
|      | 0 - 80          |          | 100          | M080 |      | 0 - 30          | ±0.25%FS | 45           | P030 |
|      | 0 - 90          |          | 100          | M090 |      | 0 - 60          |          | 150          | P060 |
|      | 0 - 100         |          | 110          | M100 |      | 0 - 100         |          | 150          | P100 |
|      | 0 - 400         |          | 1000         | m400 |      | 0 - 160         |          | 300          | P160 |
|      | 0 - 500         |          | 1000         | m500 |      | 0 - 200         |          | 300          | P200 |
|      | 0 - 600         |          | 1200         | m600 |      | 0 - 300         |          | 450          | P300 |
|      | 0 - 700         |          | 1400         | m700 |      | 0 - 400         |          | 750          | P400 |
|      | 0 - 800         |          | 1600         | m800 |      | 0 - 500         |          | 750          | P500 |
|      | 0 - 900         |          | 1800         | m900 |      | 0 - 600         |          | 1500         | P600 |
|      |                 |          |              |      |      | 0 - 700         |          | 1500         | P700 |
|      |                 |          |              |      |      | 0 - 800         |          | 1500         | P800 |
|      |                 |          |              |      |      | 0 - 900         |          | 1500         | P900 |
|      |                 |          |              |      |      | 0 - 1000        |          | 1500         | P01K |
|      |                 |          |              |      |      | 0 - 2000        |          | 3000         | P02K |
|      |                 |          |              |      |      | 0 - 3000        |          | 4500         | P03K |
|      |                 |          |              |      |      | 0 - 4000        |          | 6000         | P04K |
|      |                 |          |              |      |      | 0 - 5000        |          | 7500         | P05K |
|      |                 |          |              |      |      | 0 - 6000        |          | 9000         | P06K |
|      |                 |          |              |      |      | 0 - 7000        |          | 10500        | P07K |
|      |                 |          |              |      |      | 0 - 8000        |          | 12000        | P08K |
|      |                 |          |              |      |      | 0 - 9000        |          | 13500        | P09K |
|      |                 |          |              |      |      | 0 - 10000       |          | 15000        | P10K |

## Positive/Negative Pressure N

| Unit | Measuring Range | Accuracy | Overpressure | Code | Unit | Measuring Range | Accuracy | Overpressure | Code |
|------|-----------------|----------|--------------|------|------|-----------------|----------|--------------|------|
| kPa  | - 25 - 0        | ±0.5%FS  | 50           | V025 | bar  | - 0.25 - 0      | ±0.5%FS  | 0.5          | VD25 |
|      | - 40 - 0        |          | 100          | V040 |      | - 0.4 - 0       |          | 1            | V0D4 |
|      | - 60 - 0        |          | 100          | V060 |      | - 0.6 - 0       |          | 1            | V0D6 |
|      | - 100 - 0       |          | 150          | V100 |      | - 1 - 0         |          | 1.5          | V1D0 |
|      | - 3 - +3        |          | 10           | C033 |      | - 0.03 - +0.03  |          | 0.1          | C0D3 |
|      | - 5 - +20       |          | 30           | C520 |      | - 0.05 - +0.2   |          | 0.3          | C052 |
|      | - 5 - +25       |          | 30           | C525 |      | - 0.05 - +0.25  |          | 0.3          | C5D5 |
|      | - 15 - +15      |          | 30           | C015 |      | - 0.15 - +0.15  |          | 0.3          | CD15 |
|      | - 20 - +20      |          | 30           | C020 |      | - 0.2 - +0.2    |          | 0.3          | C0D2 |
|      | - 25 - +25      |          | 50           | C025 |      | - 0.25 - +0.25  |          | 0.5          | CD25 |
|      | - 30 - +30      |          | 50           | C030 |      | - 0.3 - +0.3    |          | 0.5          | C003 |
|      | - 50 - +50      |          | 100          | C050 |      | - 0.5 - +0.5    |          | 1            | C005 |
|      | - 100 - +60     |          | 150          | C16B |      | - 1 - +0.6      |          | 1.5          | C0D6 |
|      | - 100 - +100    |          | 300          | C11B |      | - 1 - +1        |          | 2            | C101 |
|      | - 100 - +150    |          | 300          | C1B5 |      | - 1 - +1.5      |          | 3            | C1D5 |
|      | - 100 - +300    | ±0.25%FS | 500          | C13B |      | - 1 - +3        | ±0.25%FS | 5            | C103 |
|      | - 100 - +500    |          | 1000         | C15B |      | - 1 - +5        |          | 10           | C105 |
|      | - 100 - +900    |          | 2000         | C19B |      | - 1 - +9        |          | 20           | C109 |
|      | - 100 - +1000   |          | 2500         | C11K |      | - 1 - +10       |          | 25           | C110 |
|      | - 100 - +1500   |          | 3000         | C1K5 |      | - 1 - +15       |          | 30           | C115 |
|      | - 100 - +1600   |          | 3000         | C1K6 |      | - 1 - +16       |          | 30           | C116 |
|      | - 100 - +2000   |          | 3000         | C12K |      | - 1 - +20       |          | 30           | C120 |
|      | - 100 - +2400   |          | 5000         | C24K |      | - 1 - +24       |          | 50           | C124 |
|      | - 100 - +2500   |          | 5000         | C25K |      | - 1 - +25       |          | 50           | C125 |
|      | - 100 - +3000   |          | 6000         | C30K |      | - 1 - +30       |          | 60           | C130 |
|      | - 100 - +3500   |          | 7000         | C35K |      | - 1 - +35       |          | 70           | C135 |

|     |            |          |     |      |
|-----|------------|----------|-----|------|
| psi | -15 - 0    | ±0.5%FS  | 20  | PF00 |
|     | -15 - +10  |          | 20  | PF10 |
|     | -15 - +15  |          | 45  | PF15 |
|     | -15 - +30  | ±0.25%FS | 150 | PF30 |
|     | -15 - +50  |          | 150 | PF50 |
|     | -15 - +80  |          | 300 | PF80 |
|     | -15 - +100 |          | 300 | PF1B |
|     | -15 - +150 |          | 450 | P1B5 |

Note: The specified accuracy applies within the compensation temperature range of -10° C to 70° C. Test standard: GB/T 17614.1-2015/IEC60770-1:2010

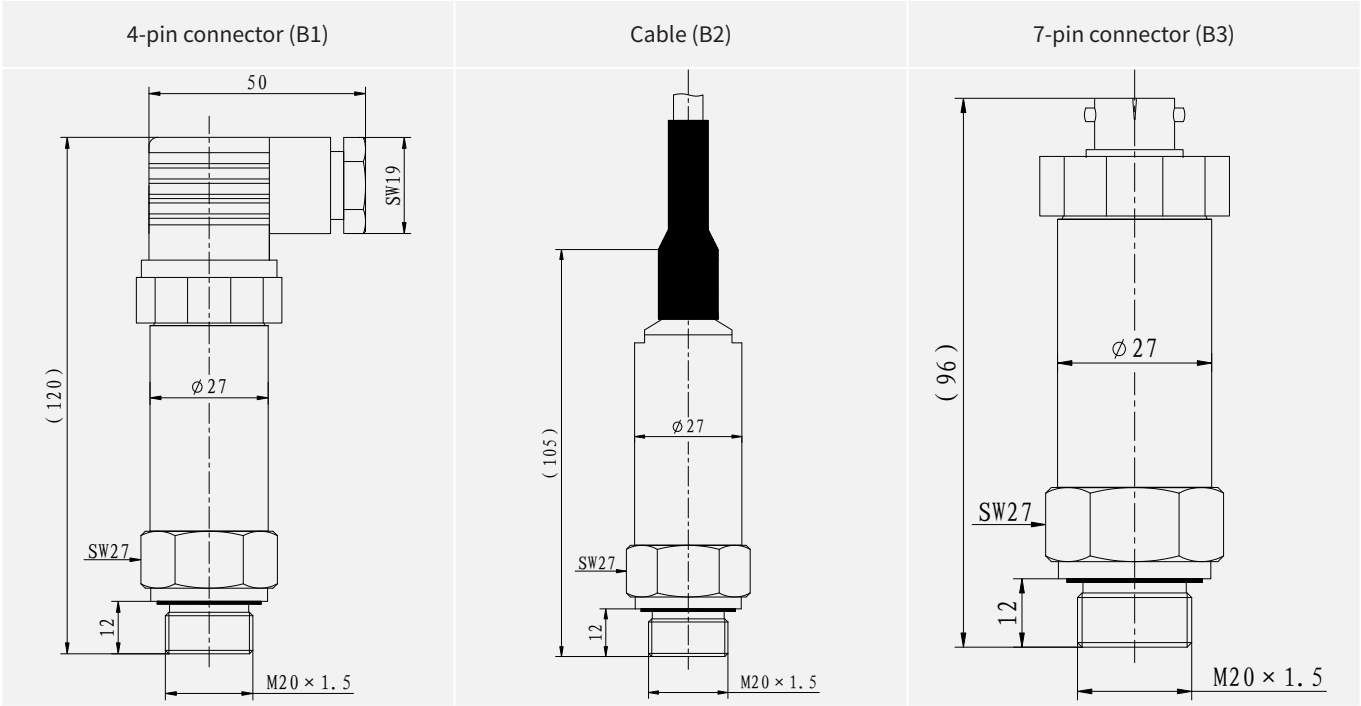
For other measurement ranges, please contact MICROSENSOR.

Output Signals

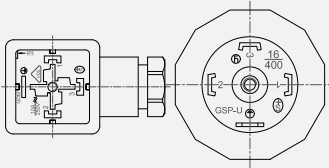
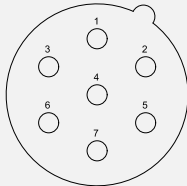
| Output signal                                 | Supply voltage | Output type | Load resistance                          |
|-----------------------------------------------|----------------|-------------|------------------------------------------|
| RS485, ASCII communication protocol (R4)      | 3.6V~28V DC    | 4-wire      | The RS485 bus supports up to 99 devices. |
| RS485, MODBUS_RTU communication protocol (R8) |                |             |                                          |

Outline Construction

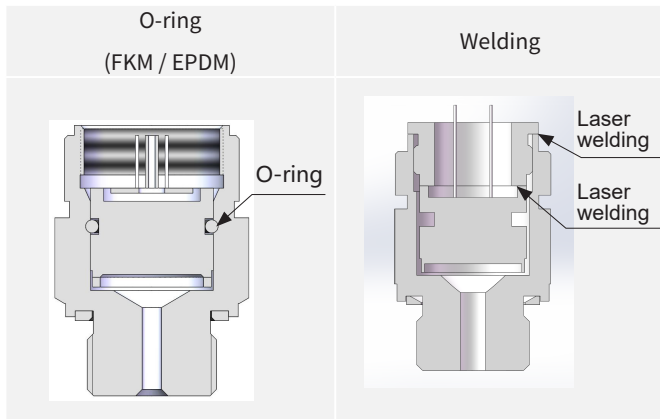
Unit: mm



Electrical Connection

|              | 4-pin connector (B1)                                                                | Cable (B2)                                                                           | 7-pin connector(B3)                                                                   |
|--------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Definition   |  |  |  |
|              | RS485<br>4-wire                                                                     | RS485<br>4-wire                                                                      | RS485<br>4-wire                                                                       |
| (+V)         | 1                                                                                   | Red                                                                                  | 1                                                                                     |
| (+OUT)/ (-V) | 2                                                                                   | Black                                                                                | 2                                                                                     |
| RS485A       | 3                                                                                   | Yellow / Green                                                                       | 4                                                                                     |
| RS485B       |  | White                                                                                | 5                                                                                     |

## Sensor Sealing



## Construction Materials

Wetted parts

Isolated diaphragm: SS 316L/Tantalum/Titanium

Pressure port: SS 304/SS 316L/Hastelloy C/Titanium

Non-wetted parts

Housing: SS 304/ SS 316L/Titanium

Cable: PE/PUR

## Auxiliary Software

RS485 Transmitter software

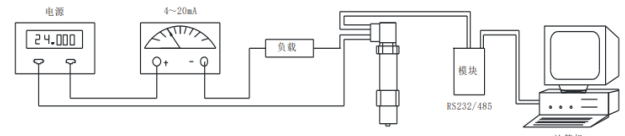
47XX software

Used with an RS485 converter module, this software enables reading basic internal information from RS485 transmitters, including transmitter address, real-time pressure, and temperature values.

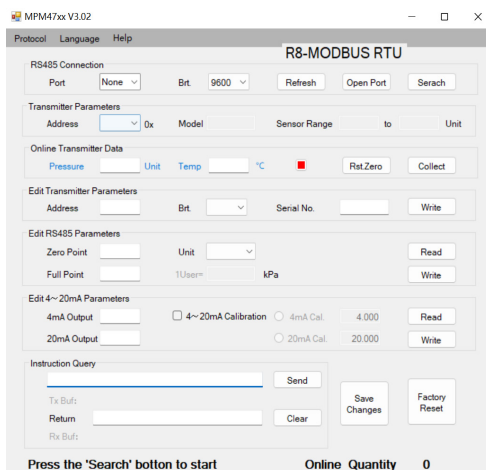
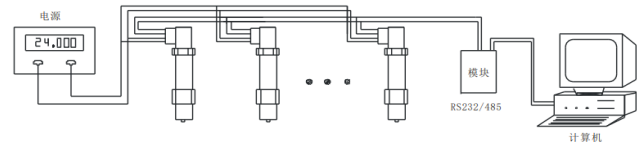
Note: The “47XX” programming software is available for download from our official website: [www.microsensorcorp.com](http://www.microsensorcorp.com).

## Application Examples

### Wiring for On-Site Calibration Using a Computer

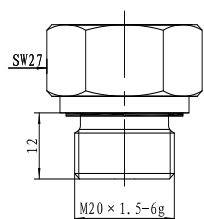


### Network Application of Transmitter with RS485 Interface

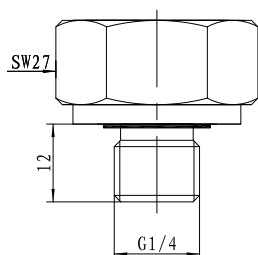


## Process Connection

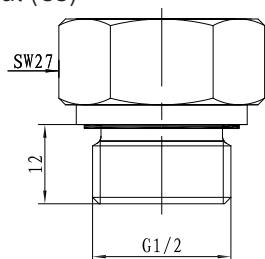
M20×1.5 Male, face seal (C1)



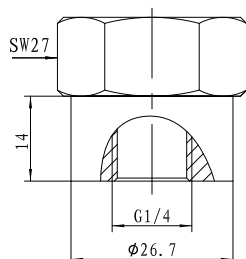
G1/4 Male, face seal (C2)



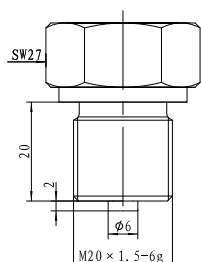
G1/2 Male, face seal (C3)



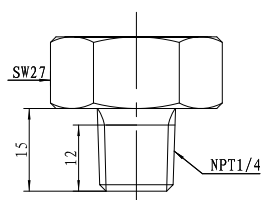
G1/4 Female, waterline seal (C4)



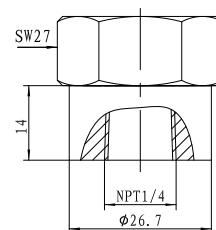
M20×1.5 Male, waterline seal (C5)



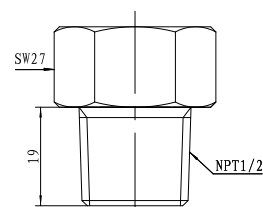
NPT1/4 Male (C6)



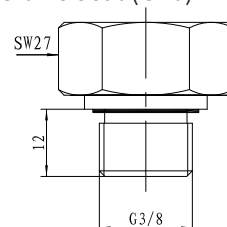
NPT1/4 Female (C8)



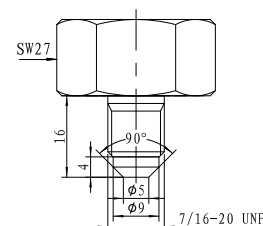
NPT1/2 Male (C10)



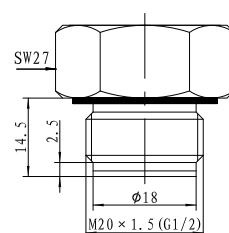
G3/8 Male, waterline seal (C16)



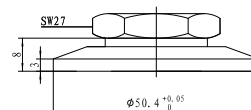
7/16-20 UNF Male, 90° cone seal (C26)



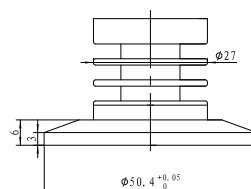
M20×1.5 or G1/2 flush diaphragm (PC1/PC3)



DN25 Clamp (PD1)



DN25 Clamp connection with heat sink (PD1s)



## Order Guide

|         |                            |                                                                |                      |     |    |    |                      |    |                    |  |
|---------|----------------------------|----------------------------------------------------------------|----------------------|-----|----|----|----------------------|----|--------------------|--|
| MPM4736 | Smart Pressure Transmitter |                                                                |                      |     |    |    |                      |    |                    |  |
|         | Code                       | Pressure type                                                  |                      |     |    |    |                      |    |                    |  |
|         | G                          | Gauge/ Sealed gauge pressure                                   |                      |     |    |    |                      |    |                    |  |
|         | S                          |                                                                |                      |     |    |    |                      |    |                    |  |
|         | A                          | Absolute pressure                                              |                      |     |    |    |                      |    |                    |  |
|         | N                          | Negative pressure                                              |                      |     |    |    |                      |    |                    |  |
|         | Range                      | Measuring range -100kPa…0kPa ~ 10kPa…100MPa                    |                      |     |    |    |                      |    |                    |  |
|         | XXXX                       | Range-specific code                                            |                      |     |    |    |                      |    |                    |  |
|         | Code                       | Output signal                                                  |                      |     |    |    |                      |    |                    |  |
|         | R4                         | RS485, ASCII                                                   |                      |     |    |    |                      |    |                    |  |
|         | R8                         | RS485, MODBUS_RTU                                              |                      |     |    |    |                      |    |                    |  |
|         | Code                       | Power supply                                                   |                      |     |    |    |                      |    |                    |  |
|         | V15                        | 3.6V ~ 28V DC                                                  |                      |     |    |    |                      |    |                    |  |
|         | Code                       | Accuracy                                                       |                      |     |    |    |                      |    |                    |  |
|         | A1                         | ±0.25%FS                                                       |                      |     |    |    |                      |    |                    |  |
|         | A2                         | ±0.5%FS                                                        |                      |     |    |    |                      |    |                    |  |
|         | Code                       | Construction material                                          |                      |     |    |    |                      |    |                    |  |
|         |                            | Isolated diaphragm                                             | Pressure port        |     |    |    | Housing              |    |                    |  |
|         | 22                         | Stainless steel 316L                                           | Stainless steel 304  |     |    |    | Stainless steel 304  |    |                    |  |
|         | 23                         | Stainless steel 316L                                           | Stainless steel 316L |     |    |    | Stainless steel 304  |    |                    |  |
|         | 24                         | Stainless steel 316L                                           | Stainless steel 316L |     |    |    | Stainless steel 316L |    |                    |  |
|         | 25                         | Tantalum Ta1                                                   | Stainless steel 316L |     |    |    | Stainless steel 304  |    |                    |  |
|         | 35                         | Tantalum Ta1                                                   | Hastelloy C          |     |    |    | Stainless steel 304  |    |                    |  |
|         | 40                         | Titanium TA1                                                   | Titanium TC4         |     |    |    | Titanium TC4         |    |                    |  |
|         | Code                       | Sensor sealing                                                 |                      |     |    |    |                      |    |                    |  |
|         | 00                         | FKM (standard)                                                 |                      |     |    |    |                      |    |                    |  |
|         | 01                         | EPDM (optional by operating temp. and medium compatibility)    |                      |     |    |    |                      |    |                    |  |
|         | 02                         | Welding (optional by operating temp. and medium compatibility) |                      |     |    |    |                      |    |                    |  |
|         | 03                         | Integral sintering (optional only for PC1, PC3, PD1, and PD1s) |                      |     |    |    |                      |    |                    |  |
|         | Code                       | Process connection                                             |                      |     |    |    |                      |    |                    |  |
|         | C1                         | M20× 1.5 Male, face seal                                       |                      |     |    |    |                      |    |                    |  |
|         | C2                         | G1/4 Male, face seal                                           |                      |     |    |    |                      |    |                    |  |
|         | C3                         | G1/2 Male, face seal                                           |                      |     |    |    |                      |    |                    |  |
|         | C4                         | G1/ 4 Female                                                   |                      |     |    |    |                      |    |                    |  |
|         | C5                         | M20×1.5 Male, waterline seal                                   |                      |     |    |    |                      |    |                    |  |
|         | C6                         | NPT1/4 Male                                                    |                      |     |    |    |                      |    |                    |  |
|         | C8                         | NPT1/ 4 Female                                                 |                      |     |    |    |                      |    |                    |  |
|         | C10                        | NPT1/2 Male                                                    |                      |     |    |    |                      |    |                    |  |
|         | C16                        | G3/8 Male, face seal                                           |                      |     |    |    |                      |    |                    |  |
|         | C26                        | 7/16-20 UNF Male, 90° cone seal                                |                      |     |    |    |                      |    |                    |  |
|         | PC1                        | Flush diaphragm M20× 1.5 Male                                  |                      |     |    |    | 0kPa ~ 40kPa…35MPa   |    |                    |  |
|         | PC3                        | Flush diaphragm G1/ 2 Male                                     |                      |     |    |    |                      |    |                    |  |
|         | PD1                        | Hygienic DN25 clamp connection                                 |                      |     |    |    |                      |    |                    |  |
|         | PD1s                       | Hygienic DN25 clamp connection with heat sink                  |                      |     |    |    | 0kPa ~ 40kPa…3.5MPa  |    |                    |  |
| MPM4736 | G                          | M1D6                                                           | R4                   | V15 | A1 | 22 | 00                   | C2 | The complete spec. |  |

## Order Guide

| Code               | Process connection sealing                 |
|--------------------|--------------------------------------------|
| N                  | None (C4, C6, C8, C10, C26, PD1, and PD1s) |
| 1                  | NBR                                        |
| 2                  | FKM (standard)                             |
| 3                  | EPDM                                       |
| 4                  | Copper (C5)                                |
|                    | Code Electrical connection                 |
|                    | B1 4-pin connector                         |
|                    | B11 4-pin connector with 1.5 m PVC cable   |
|                    | B2 Cable                                   |
|                    | B3 7-pin connector                         |
|                    | B31 7-pin connector with 1.5 m PVC cable   |
|                    | Code Cable material                        |
|                    | N None (non-cable connection option)       |
|                    | P1 PE (standard)                           |
|                    | P2 PUR                                     |
|                    | Code Cable length (Unit: m)                |
|                    | N None (non-cable connection option)       |
|                    | L01 1                                      |
|                    | L1.5 1.5                                   |
|                    | L02 2                                      |
|                    | L03 3                                      |
|                    | L04 4                                      |
|                    | L05 5                                      |
|                    | L06 6                                      |
|                    | L07 7                                      |
|                    | L08 8                                      |
|                    | L09 9                                      |
|                    | L10 10                                     |
|                    | Code Accessory                             |
|                    | N No accessories required                  |
|                    | Yb5 Yb junction box (5-core terminals)     |
|                    | Yc5 MS200 (5-core terminals)               |
|                    | Yd PD140                                   |
|                    | Ye Ye (without indicator)                  |
|                    | MS01 Polymer plug                          |
|                    | D01 Damping gasket                         |
| 2                  | B2                                         |
|                    | P1                                         |
|                    | L10                                        |
|                    | Yb                                         |
| The complete spec. |                                            |

## Notes

- 1.The sensor O-ring material options are FKM and EPDM. The minimum operating temperature for FKM is -20° C, while for EPDM, it is -40° C.
- 2.If a metrology verification certificate is required, or there are any other special requirements, please consult with the MICROSENSOR and specify them in the order.

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