# DFP4200 Small Volume Pressure Transmitter

## Features

- Minimized size, compact design, easy installation
- Fully welded construction
- Excellent long-term stability
- High cost performance
- No sealing links, no welds

## Overview

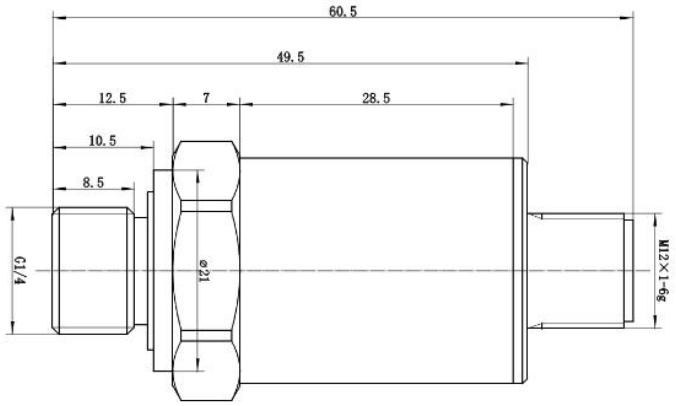
The DFP4200 type pressure transmitter is a small volume, external full welding process, high stability pressure transmitter. It uses a piezoresistive pressure sensor with high stability and high reliability, and is equipped with a dedicated conditioning circuit to output a standard current or voltage signal. The overall performance is stable and reliable. Widely applicable to the detection and control of fluid pressure in petroleum, chemical, power, hydrology, geology and other industries. Compact product structure, excellent quality, stable and reliable overall performance, ideal for general industry, and cost-effective. We can also provide products that meet the requirements of our customers' applications in a short period of time according to their needs. Multiple pressure ranges and signal outputs, multiple connectors and pressure interfaces.

## Technical Parameters

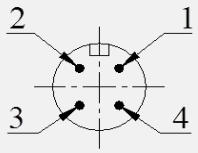
| Pressure Parameters | | |
|---|---|---|
| Measurement Range | 0MPa~0.6MPa...60MPa | |
| Overload | 2x full scale pressure or 110MPa (min) | |
| Pressure Type | Gauge pressure, absolute pressure, sealed gauge pressure | |
| Electrical Specifications | | |
| Output Type | Current type | Voltage type |
| Power Supply | 9～36V DC | 10～30V DC |
| Output Signal | 4mA ~ 20mA DC (2-wire system) | 0... 1V ~ 5... 10V DC (3-wire system) |
| Pressure Type | ≤（U-9）/0.02A（Ω） | ≥10k |
| Insulation | 100MΩ@100V DC | |

| | | |
|---|---|---|
| Resistance | | |
| Structural parameters | | |
| CASE | Stainless steel | |
| sensor | 316L stainless steel | |
| IP Grade | IP67 | |
| environmental parameter | | |
| Media suitability | Various fluids without corrosion to 316L stainless steel and fluorubber | |
| Compensation Temperature | -10C～+80℃ | |
| Operating Temperature | -30℃～+80℃ | |
| Storage Temperature | -40℃～+125℃ | |
| Performance | | |
| Accuracy | ± 0.25% FS (typical) | ± 0.5% FS (max) |
| Zero Temperature Coefficient | 0.03%FS/℃（≤100kPa）；0.02%FS/℃（＞100kPa） | |
| Full temperature coefficient | 0.03%FS/℃（≤100kPa）；0.02%FS/℃（＞100kPa） | |
| LONG-TERM STABILITY STUDIES | ± 0.3% FS/yr (max) | |

## Form Factor




## Electrical connection

| | | |
|---|---|---|
| Function definition |  | |
| PIN No. | Two-Wire System | Three-Wire System |
| 1 | Power Supply positive: V + | Power Supply positive: V + |
| 2 | Signal: out + | Public: GND |
| 3 | NC | Signal: out + |
| 4 | NC | NC |

## Selection Guide

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DFP4200 | Type Pressure Transmitter | | | | | | | | | | |
| | Measurement Range | Measurement range: -0.1MPa... 0MPa ~ 0.01 MPa... 60MPa | | | | | | | | | |
| | [0-X] kPa or MPa | X: Actual Measurement Range | | | | | | | | | |
| | | code | Output Signal | | | | | | | | |
| | | E | 4～20mA DC | | | | | | | | |
| | | F | 1V～5V DC | | | | | | | | |
| | | J | 0V～5V DC | | | | | | | | |
| | | | structural material | | | | | | | | |
| | | | code | Isolation diaphragm | Interface | CASE | | | | | |
| | | | 22 | Stainless Steel 316L | Stainless steel | Stainless steel | | | | | |
| | | | 24 | Stainless Steel 316L | Stainless Steel 316L | Stainless Steel 316L | | | | | |
| | | | | code | Process connection | | | | | | |
| | | | | C2 | G1/4 External Threaded Pressure Interface | | | | | | |
| | | | | C12 | M14 * 1.5 male thread pressure interface | | | | | | |
| | | | | C20 | NPT1/4 External Threaded Pressure Interface | | | | | | |
| | | | | | code | Pressure Type | | | | | |
| | | | | | G | Gauge type | | | | | |
| | | | | | A | Absolute pressure type | | | | | |
| | | | | | S | Sealing gauge pressure | | | | | |
| DFP4200 [0-10] MPa E 22 C2 G Full Specification Model | | | | | | | | | | | |