Pressure Transmitter, 0-2MPa, 5V Supply, 0.5-4.5V signal, cable electrical connection NPT1/4 M

**PT9503 Series**
**IOT Pressure Sensors Technical Data Sheet**

**PT9503-2000KV6KB2C6**

**Features**

- Pressure range 0-2MPa
- Micro-fused technology, dry-type structure
- Water hammer preventing and cracking resistant
- Compact structure, high cost-effectiveness
- Temperature compensation and linear correction

**Applications**

- IoT Terminal
- Smart Firefighting
- Smart Agriculture irrigation
- Pipeline, Water pressure control system

**Description**

PT9503-2000KV6KB2C6 is a highly stable and reliable pressure transmitter with span and zero correction. It is a cost-effective product which adopts micro-fused technology pressure sensor and special designed amplifier circuit. With linear correction and temperature compensation, it can effectively resist water hammer effect, solve the problem of momentary overload pressure and also could meet different needs for pressure measurements and control in various environmental conditions.

**Product Configuration**

- Application: Pressure Transmitter
- Electrical Connector: NPT1/4 Male

**General Specifications**

<table>
<thead>
<tr>
<th>Description</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Range</td>
<td>0</td>
<td></td>
<td>2</td>
<td>MPa</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±1.0</td>
<td></td>
<td></td>
<td>%Full Scale</td>
</tr>
<tr>
<td>Zero Thermal Error per °C</td>
<td>±0.02</td>
<td></td>
<td></td>
<td>% Full Scale/°C</td>
</tr>
<tr>
<td>Span Thermal Error per °C</td>
<td>±0.02</td>
<td></td>
<td></td>
<td>% Full Scale/°C</td>
</tr>
<tr>
<td>Compensated Temp Range</td>
<td>0</td>
<td></td>
<td>70</td>
<td>°C</td>
</tr>
<tr>
<td>Burst Pressure</td>
<td>12</td>
<td></td>
<td></td>
<td>MPa</td>
</tr>
<tr>
<td>Overpressure</td>
<td>2</td>
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<td></td>
<td>xFull Scale</td>
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</table>

**Electrical Specifications**

<table>
<thead>
<tr>
<th>Description</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
<th>Unit</th>
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</thead>
<tbody>
<tr>
<td>Output Signal</td>
<td>0.5-4.5VDC</td>
<td></td>
<td></td>
<td>VDC</td>
</tr>
<tr>
<td>Power Supply/Excitation Level</td>
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<td>5</td>
<td></td>
<td>VDC</td>
</tr>
<tr>
<td>Insulation Resistance @250V DC</td>
<td>100</td>
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<td></td>
<td>MΩ</td>
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</table>

**Material Specifications**

<table>
<thead>
<tr>
<th>Description</th>
<th>Material</th>
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</thead>
<tbody>
<tr>
<td>Diaphragm</td>
<td>Stainless Steel 17-4PH</td>
</tr>
</tbody>
</table>
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Plug Housing: Stainless Steel 304
O-Ring: NBR

Mechanical Specifications

Environmental Specifications

Temperature (Operating): 0°C to 70°C
Temperature (Storage): -20°C to 100°C
Ingress Protection: IP67

Notes: Media compatibility—the media compatible with 17-4PH SS and NBR

Certifications: ROHS Compliant
CE Compliant

The Infinite Electronics portfolio includes coaxial cable assemblies, connectors, adapters and custom products, as well as our wireless product line which includes antennas, RF amplifiers, lightning and surge protectors, and NEMA rated enclosures.

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PT9503-2000KV6KB2C6 CAD Drawing
Pressure Transmitter, 0-2MPa, 5V Supply, 0.5-4.5V signal, cable electrical connection NPT1/4 M