Water Pressure Sensor - Specification Sheet

Sensor Specifications

General Information:

- Sensor Type: Piezoresistive Analog Water Pressure Sensor

- Output Type: Analog 0-5V

- Pressure Range: 0-5 bar

- Ingress Protection: IP65

Electrical Characteristics:

- Input Voltage: 5V ± 0.25VDC (Supports 5-32VDC)

- Output Voltage: 0-5V Linear Analog Output

- Electrical Connector: Packard Connector (Three-core)

Mechanical Characteristics:

- Thread Type: G3/8 Screw Connection

- Housing Material: Stainless Steel

- Core: Advanced Ceramic Core

- Built-in Processing Chip for Signal Conditioning

Performance Features:

- High Accuracy

- Small Size and Lightweight

- Easy to Install and Use

- EMC Certified for Enhanced Stability

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Environmental Conditions:

- Suitable for Outdoor Use with Proper Enclosure

- Rated IP65: Dust-tight and Protected Against Water Jets

Applications:

- Water Pressure Monitoring in Wells, Pumps, and Other Plumbing Systems

Integration Notes:

- Use a voltage divider to step 0-5V signal down to 0-3.3V for ESP32 ADC compatibility.

- Linear Mapping: 0V = 0 bar, 5V = 5 bar

Project Use:

- Integrated with ESP32 Dev Board using ESPHome

- Connected to Home Assistant for Monitoring and Alerts