INTRODUCING

# MSP100 PRESSURE TRANSDUCER WITH DIGITAL OUTPUT

- **Support design fexibility with analog or digital 14-bit ADC output, SPI or I²C protocol**
- **Enable harsh chemical measurements with 100% stainless steel isolation**

TE Connectivity (TE) helps advance digital technology with the release of the MSP100 Digital Output Pressure Transducer. Developed as a standard platform product expanding on the existing MSP100, which originally came with an analog option only, this sensor provides stainless steel media compatibility in a low cost, small profile solution. This sensor has no silicone gel or polymeric media isolation methods to fail in contact with water or other harsh chemicals. Pressure connections are provided via an O-ring seal. The device is available in both analog and 14-bit digital output with a port material of either 316L SS or 17-4PH. Additional custom port options are available to meet your application needs.

## KEY BENEFITS

- Support design flexibility with analog or digital 14-bit ADC output, SPI or I²C protocol
- Enable harsh chemical measurements with 100% stainless steel isolation
- Increase reliability with single piece construction; no welds and no oils required
- Help eliminate analog-to-digital circuitry with a digital output sensor

## APPLICATIONS

- Beverage dispensing systems
- Water pressure or flow monitor
- Industrial equipment/ hydraulics
- Tank level measurement
- Manifold pressure
- Medical equipment

## LEARN MORE

MSP100 Product Landing Page

MSP100 Parts List

| DISTINGUISHING CHARACTERISTICS | |
|---|---|
| **Supply Voltage** | 3Vdc |
| **Pressure Range** | 0-100, 150, 250, 500psi |
| **Pressure Type** | Gauge |
| **Digital Output Protocol** | SPI or I²C |
| **Output at FS Pressure** | 15,000 Count |
| **Pressure Accuracy** | ±0.5% Span |
| **Output Pressure Resolution** | 14 Bits |
| **Operating Temperature** | 0°C to 55°C |
| **Output Temperature Resolution** | 11 Bits |
| **Temperature Accuracy** | ±3°C |
| **Temperature Resolution** | 0.1°C |
| **Thermal Zero/Span Shift** | ±2% Span |
| **Compensated Temperature** | 0°C to 45°C |
| **Current Consumption** | 3mA |
| **Proof Pressure** | 1.5X Rated |
| **Burst Pressure** | 3X Rated |