



MS4525DO

SPECIFICATIONS

- **PCB Mounted Digital Output Transducer**
- **Combination Temperature and Pressure**
- **I²C or SPI Protocol**
- **Differential, Gage, Absolute, Compound, & Vacuum**
- **Temperature Compensated**
- **3.3 or 5.0 Vdc Supply Voltage**
- **Low Power Option Available (standby < 1uA)**

The MS4525DO is a small, ceramic based, PCB mounted pressure transducer from Measurement Specialties. The transducer is built using Measurement Specialties' proprietary UltraStable™ process and the latest CMOS sensor conditioning circuitry to create a low cost, high performance digital output pressure (14bit) and temperature (11bit) transducer designed to meet the strictest requirements from OEM customers.

The MS4525DO is fully calibrated and temperature compensated with a total error band (TEB) of less than 1.0% over the compensated pressure range. The sensor operates from single supply of either 3.3 or 5.0Vdc and requires a single external component for proper operation.

The rugged ceramic transducer is available in side port, top port, and manifold mount and can measure absolute, gauge, differential, vacuum or compound pressure from 1 to 150psi. The 1/8" barbed pressure ports mate securely with 3/32" ID tubing.

FEATURES

- PSI Pressure Ranges
- PCB Mountable
- Digital Output
- Barbed Pressure Ports

APPLICATIONS

- Blocked Filter Detection
- Altitude and Airspeed Measurements
- Medical Instruments
- Fire Suppression System
- Panel Meter
- Air Movement/Environmental Controls
- Pneumatic Controls

STANDARD RANGES (PSI)

Pressure	Absolute	Gage	Differential	Compound	Vacuum	Option Availability
1		DS, SS, TP, MM	DS, SS, TP, MM			-F, -L, -M
2		DS, SS, TP, MM	DS, SS, TP, MM			-F, -L, -M
5		DS, SS, TP, MM	DS, SS, TP, MM			-F, -L, -M
15	SS, TP	DS, SS, TP, MM	DS, MM	SS, TP	SS, TP, DS	-F, -L, -M
30	SS, TP	DS, SS, TP, MM	DS, MM	SS, TP		-F, -L, -M
50	SS, TP	DS, SS, TP, MM	DS, MM	SS, TP		-F, -L, -M
100	SS, TP	DS, SS, TP, MM	DS, MM	SS, TP		-F, -L, -M
150	SS, TP	DS, SS, TP, MM	DS, MM	SS, TP		-F, -L, -M

See Package Configurations: DS= Dual Side Port, SS= Single Side Port, TP= Top Port, MM= Manifold Mount
 Only I²C Protocol is Available on “L” type Pin Styles; Reference Ordering Information for Details
 Pin Style “L” is only available SS and MM port types.
 Pin Style “C” is only available SS, TP and MM port types.