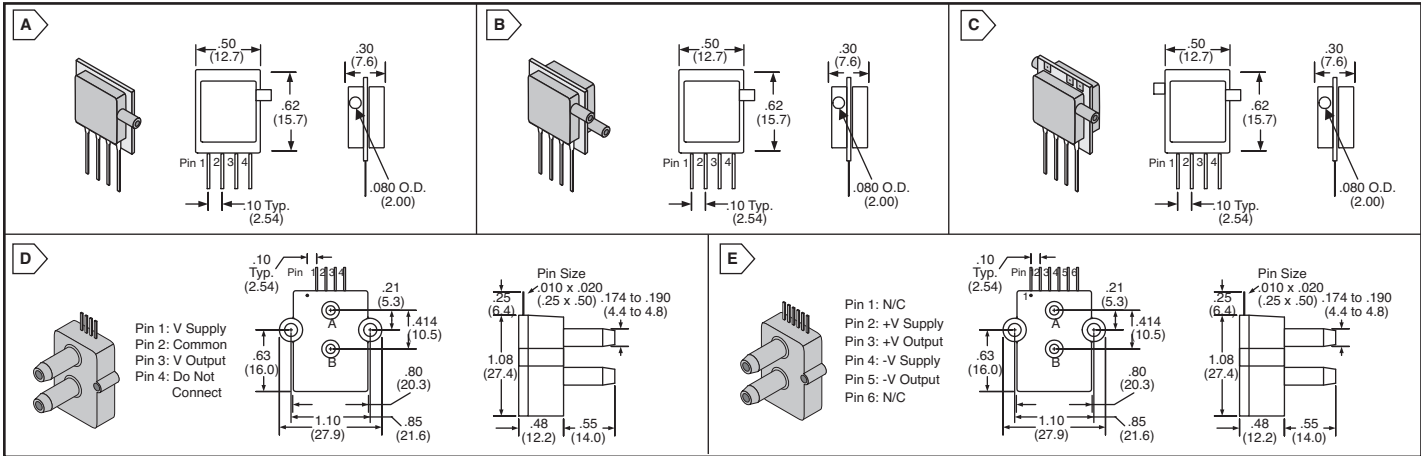


# ALL SENSORS Silicon Pressure Sensors



DIMENSIONS: in. (mm)



All Sensors, Inc. pressure sensors are based on piezo-resistive semiconductor technology, broadly referred to as MEMS (micro electrical mechanical systems). Our products, both analog and digital are based upon a proprietary technology to reduce errors. Output changes due to temperature, warm-up stability, long-term stability, and position sensitivity are all significantly reduced when compared to conventional compensation methods. These sensors are intended for use with non-corrosive, non-ionic working fluids, such as air and dry gases. Packaging is designed to be mounted to a printed-circuit board. Our highly linear pressure sensors are typically used as components in high accuracy instrumentation for markets such as: medical, HVAC, mine safety, off-road vehicles, chemical analysis, and environmental.

## MINIATURE BASIC PRESSURE SENSORS - 0.5% LINEARITY

- Specifications:**
- Common-mode pressure: 5 psig
  - Supply voltage: 6 VDC max.
- Features:**
- Offset compensated
  - Ratiometric output

For quantities of 25 and up, call for quote.

MOUSER STOCK NO.	All Sensors Part No.	Fig.	Operating Pressure	Pressure Type	Nominal Output Span	Price Each		
						1	5	10
683-1INCHGBASIC	1INCH-G-BASIC	A	0-1" H2O	Gauge	7.0 mV	50.00	45.00	35.00
683-1INCHD1BASIC	1INCH-D1-BASIC	B	0-1" H2O	Differential	7.0 mV	50.00	45.00	35.00
683-5INCHD2BASIC	5INCH-D2-BASIC	C	0-5" H2O	Differential	22.5 mV	50.00	45.00	35.00
683-10INCHGBASIC	10INCH-G-BASIC	A	0-10" H2O	Gauge	30 mV	50.00	45.00	35.00
683-20INCHGBASIC	20INCH-G-BASIC	A	0-20" H2O	Gauge	30 mV	50.00	45.00	35.00
683-20INCHD2BASIC	20INCH-D2-BASIC	C	0-20" H2O	Differential	30 mV	50.00	45.00	35.00
683-30INCHGBASIC	30INCH-G-BASIC	A	0-30" H2O	Gauge	30 mV	50.00	45.00	35.00
683-30INCHD2BASIC	30INCH-D2-BASIC	C	0-30" H2O	Differential	30 mV	50.00	45.00	35.00

## MINIATURE MILLIVOLT OUTPUT LOW PRESSURE SENSORS

- Specifications:**
- Compensated temperature range: 0°C to 50°C
  - Operating temperature: -25°C to +85°C
  - Common-mode pressure: 10 psig
  - Supply voltage: 16 VDC max.
  - Ratiometric output

- Features:**
- Calibrated Zero and Span
  - Based on proprietary technology to reduce all output offset or common mode errors
  - Utilizes silicon, MEMS technology to provide very linear output to measured pressure

For quantities of 25 and up, call for quote.

MOUSER STOCK NO.	All Sensors Part No.	Fig.	Operating Pressure	Pressure Type	Nominal Output Span	Price Each		
						1	5	10
683-2INCHD1MVMINI	2INCH-D1-MV-MINI	B	0-2" H2O	Differential	10 mV	70.00	63.00	49.00
683-2INCHD2MVMINI	2INCH-D2-MV-MINI	C	0-2" H2O	Differential	10 mV	70.00	63.00	49.00
683-5INCHD1MVMINI	5INCH-D1-MV-MINI	B	0-5" H2O	Differential	20 mV	70.00	63.00	49.00
683-10INCHGMVMINI	10INCH-G-MV-MINI	A	0-10" H2O	Gauge	20 mV	70.00	63.00	49.00
683-10INCHD1MVMINI	10INCH-D1-MV-MINI	B	0-10" H2O	Differential	20 mV	70.00	63.00	49.00
683-20INCHD2MVMINI	20INCH-D2-MV-MINI	C	0-20" H2O	Differential	20 mV	70.00	63.00	49.00
683-30INCHGMVMINI	30INCH-G-MV-MINI	A	0-30" H2O	Gauge	20 mV	70.00	63.00	49.00
683-30INCHD1MVMINI	30INCH-D1-MV-MINI	B	0-30" H2O	Differential	20 mV	70.00	63.00	49.00

## AMPLIFIED LOW PRESSURE SERIES

- Specifications:**
- Compensated temperature range: 5°C to 50°C
  - Operating temperature: -25°C to +85°C
  - Common-mode pressure: -10 to +10 psig
  - Supply voltage: +4.5 to +5.5 VDC
  - Ratiometric 4V output - output is ratiometric to supply voltage

- Applications:**
- HVAC
  - Medical instrumentation
  - Environmental controls
  - Primarily for Medical Breathing Applications

- Features:**
- Calibrated Zero and Span
  - Based on proprietary technology to reduce all output offset or common mode errors
  - Utilizes silicon, MEMS technology to provide very linear output to measured pressure

For quantities of 25 and up, call for quote.

MOUSER STOCK NO.	All Sensors Part No.	Fig.	Operating Pressure	Pressure Type	Nominal Output Span	Price Each		
						1	5	10
683-0.25INCH-D-4V	0.25 INCH-D-4V	D	0.25" H2O	Differential	±2.0V	180.00	162.00	126.00
683-0.5INCH-G-4V	0.5 INCH-G-4V	D	0.50" H2O	Gauge	±4.0V	180.00	162.00	126.00
683-1MBARD4V	1 MBAR-D-4V	E	±1 mbar	Differential	±2.0 Volts	180.00	162.00	126.00
683-1INCHD4V	1 INCH-D-4V	E	±1" H2O	Differential	±2.0 Volts	110.00	99.00	77.00
683-1INCHG4V	1 INCH-G-4V	E	0-1" H2O	Gauge	±4.0 Volts	120.00	108.00	84.00
683-5INCHD4V	5 INCH-D-4V	E	±5" H2O	Differential	±2.0 Volts	110.00	99.00	77.00
683-5INCHG4V	5 INCH-G-4V	E	0-5" H2O	Gauge	±4.0 Volts	110.00	99.00	77.00
683-10INCHD4V	10 INCH-D-4V	E	±10" H2O	Differential	±2.0 Volts	110.00	99.00	77.00
683-20INCHD4V	20 INCH-D-4V	E	±20" H2O	Differential	±2.0 Volts	110.00	99.00	77.00
683-20INCHG4V	20 INCH-G-4V	E	0-20" H2O	Gauge	±4.0 Volts	110.00	99.00	77.00
683-30INCHD4V	30 INCH-D-4V	E	±30" H2O	Differential	±2.0 Volts	110.00	99.00	77.00

## AMPLIFIED MEDIUM PRESSURE SENSORS

- Specifications:**
- Compensated temperature range: 5°C to 50°C
  - Operating temperature: -25°C to +85°C
  - Common-mode pressure: 50 psig
  - Supply voltage: +4.5 to +5.5 VDC
  - Ratiometric 4V output: output is ratiometric to supply voltage

- Features:**
- Calibrated Zero and Span
  - Based on proprietary technology to reduce all output offset or common mode errors
  - Utilizes silicon, MEMS technology to provide very linear output to measured pressure

- Applications:**
- HVAC
  - Medical instrumentation
  - Environmental controls

For quantities of 25 and up, call for quote.

MOUSER STOCK NO.	All Sensors Part Number	Fig.	Operating Pressure	Pressure Type	Nominal Output Span	Price Each		
						1	5	10
683-0.3PSIG4V	0.3PSI-G-4V	E	0-0.3 psig	Gauge	±4.0 Volts	100.00	90.00	70.00
683-15PSIA4V	15PSI-A-4V	E	0-15 psia	Absolute	±4.0 Volts	100.00	90.00	70.00
683-15PSIG4V	15PSI-G-4V	E	0-15 psig	Gauge	±4.0 Volts	90.00	81.00	63.00