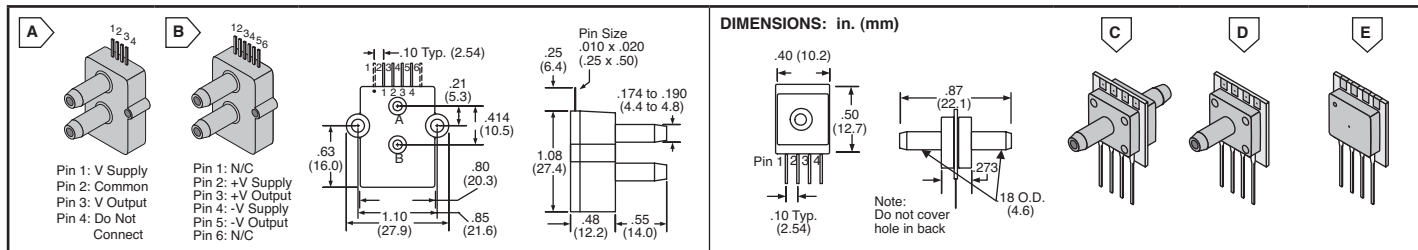


ALL SENSORS Silicon Pressure Sensors



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 MILLIVOLT OUTPUT MEDIUM PRESSURE SENSORS - 0.5% LINEARITY; ASCX SERIES

Specifications:

- Operating temperature: -25°C-105°C
- Supply Voltage: +4.5-+5.5VDC
- Output of the device is ratiometric to the supply voltage

Applications: • Compatible to Sensym ASCX Series

For quantities greater than listed, call for quote.

Features:

- Based upon a proprietary package technology to reduce errors
- Sensor housing has been designed specifically to reduce package induced parasitic stress and strain
- Utilizes a silicon, micromachined, stress concentration enhanced structure to provide a very linear output to measured pressure

MOUSER STOCK NO.	All Sensors Part No.	Fig.	Operating Pressure	Pressure Type	Nominal Output Span	Price Each		
						1	5	10
683-1PSI-D-4V-ASCX	1PSI-D-4V-ASCX	A	0-1 psid	Differential	±4.5V	90.00	82.00	68.00
683-5PSI-D-4V-ASCX	5PSI-D-4V-ASCX	A	0-5 psid	Differential	±4.5V	90.00	82.00	68.00
683-15PSI-D-4V-ASCX	15PSI-D-4V-ASCX	A	0-15 psid	Differential	±4.5V	145.00	134.00	104.00
683-30PSI-D-4V-ASCX	30PSI-D-4V-ASCX	A	0-30 psid	Differential	±4.5V	90.00	82.00	68.00
683-100PSI-D-4V-ASCX	100PSI-D-4V-ASCX	A	0-100 psid	Differential	±4.5V	90.00	82.00	68.00

MILLIVOLT OUTPUT MEDIUM PRESSURE SENSORS - 0.25% ~ 1% LINEARITY

Specifications:

- Supply voltage: 16VDC max.
- Ratiometric output
- Compensated temperature range: 0°C to 70°C
- Operating temperature: -25°C to +85°C

0.25% Linearity

• Common-mode pressure: 50 psig

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	All Sensors Part No.	Fig.	Operating Pressure	Pressure Type	Nominal Output Span	Price Each		
						1	5	10
683-1PSIDPRIMEV	1PSI-D-PRIME-MV	B	0-1 psid	Differential	18 mV	74.00	66.60	51.80

0.5% Linearity

• Common-mode pressure: -10 to +10 psig

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	All Sensors Part No.	Fig.	Operating Pressure	Pressure Type	Nominal Output Span	Price Each		
						1	5	10
683-1PSIDHGMV	1PSI-D-HGRADE-MV	B	0-1 psid	Differential	18 mV	56.00	50.40	47.60
683-5PSIDHGMV	5PSI-D-HGRADE-MV	B	0-5 psid	Differential	60 mV	44.00	39.60	30.80
683-15PSIDHGMV	15PSI-D-HGRADE-MV	B	0-15 psid	Differential	90 mV	44.00	39.60	30.80

1% Linearity

• Common-mode pressure: -10 to +10 psig

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	All Sensors Part No.	Fig.	Operating Pressure	Pressure Type	Nominal Output Span	Price Each		
						1	5	10
683-0.3PSIDCGMV	0.3PSI-D-CGRADE-MV	B	0-0.3 psid	Differential	20 mV	50.00	45.00	35.00
683-4INCHDCGMV	4INCH-D-CGRADE-MV	B	0-4" H2O	Differential	40 mV	56.00	50.40	39.20

MINIATURE MILLIVOLT OUTPUT MEDIUM PRESSURE SENSORS - 0.5% LINEARITY

Specifications:

- Common-mode pressure: -10 to +10psig
- Supply voltage: 16VDC max.
- Ratiometric output
- Compensated temperature range: 0°C to 70°C
- Operating temperature: -25°C to +85°C

For quantities greater than listed, call for quote.

Applications:

- HVAC • Medical instrumentation • Environmental controls

Features:

- Calibrated Zero and Span
- Based on proprietary technology to reduce all output offset or common mode errors

MOUSER STOCK NO.	All Sensors Part No.	Fig.	Operating Pressure	Pressure Type	Nominal Output Span	Price Each		
						1	5	10
683-1PSIDHGMINI	1PSI-D-HGRADE-MINI	C	0-1 psid	Differential	18 mV	60.00	54.00	42.00
683-5PSIGFHGMINI	5PSI-GF-HGRADE-MINI	D	0-5 psig	Gauge	60 mV	50.00	45.00	35.00
683-4INCHGHGMINI	4INCH-G-HGRADE-MINI	E	0-4" H2O	Gauge	25 mV	60.00	54.00	42.00
683-4INCHGFHGMINI	4INCH-GF-HGRADE-MINI	D	0-4" H2O	Gauge	25 mV	60.00	54.00	42.00
683-4INCHDHGMINI	4INCH-D-HGRADE-MINI	C	0-4" H2O	Differential	25 mV	60.00	54.00	42.00

SURFACE MOUNT BASIC PRESSURE SENSORS

Specifications:

- Operating temperature: -25°C-85°C
- Supply Voltage: 6VDC
- Output of the device is ratiometric to the supply voltage

For quantities greater than listed, call for quote.

Applications:

- HVAC • Medical instrumentation • Environmental controls

Features:

- Uses a silicon micromachined (MEMS) pressure sensor in the most basic configuration
- Package is a ceramic surface mount configuration to provide the smallest footprint possible
- This series is intended for use with non-corrosive, non-ionic working fluids such as air, dry gases and the like

MOUSER STOCK NO.	All Sensors Part No.	Fig.	Operating Pressure	Pressure Type	Nominal Output Span	Price Each		
						1	5	10
683-BST-L10G-LP	BST-L10G-LP	D	0-10" H2O	Ported	2.0 mV/inH2O	28.00	25.64	23.51
683-BSM-001G-LP	BSM-001G-LP	D	0 - 1 Psi	Ported	21.0 mV/Psi	26.13	23.07	21.28
683-BSM-005G-LP	BSM-005G-LP	D	0 - 5 Psi	Ported	10.5 mV/Psi	26.13	23.07	21.28
683-BSM-015G-LP	BSM-015G-LP	D	0 - 15 Psi	Ported	5.3 mV/Psi	26.13	23.07	21.28
683-BSM-015A-LP	BSM-015A-LP	D	0 - 15 Psi	Ported	5.3 mV/Psi	26.13	23.07	21.28
683-BSM-030G-LP	BSM-030G-LP	D	0 - 30 Psi	Ported	2.6 mV/Psi	26.13	23.07	21.28
683-BSM-100G-LP	BSM-100G-LP	D	0 - 100 Psi	Ported	1.1 mV/Psi	26.13	23.07	21.28
683-BST-L10G-LF	BST-L10G-LF	D	0 - 10" H2O	Non-Ported	2.0 mV/inH2O	28.00	25.64	23.51
683-BSM-001G-LF	BSM-001G-LF	D	0 - 1 Psi	Non-Ported	21.0 mV/Psi	26.13	23.07	21.28
683-BSM-005G-LF	BSM-005G-LF	D	0 - 5 Psi	Non-Ported	10.5 mV/Psi	26.13	23.07	21.28
683-BSM-015G-LF	BSM-015G-LF	D	0 - 15 Psi	Non-Ported	5.3 mV/Psi	26.13	23.07	21.28
683-BSM-015A-LF	BSM-015A-LF	D	0 - 15 Psi	Non-Ported	5.3 mV/Psi	26.13	23.07	21.28
683-BSM-030G-LF	BSM-030G-LF	D	0 - 30 Psi	Non-Ported	2.6 mV/Psi	26.13	23.07	21.28
683-BSM-100G-LF	BSM-100G-LF	D	0 - 100 Psi	Non-Ported	1.1 mV/Psi	26.13	23.07	21.28

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 to +10psig
- Supply voltage: 16VDC max.
- Ratiometric output

For quantities greater than listed, call for quote.

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

MOUSER STOCK NO.	All Sensors Part No.	Fig.	Operating Pressure	Pressure Type	Nominal Output Span	Price Each		
						1	5	10
683-1INCHDMV	1INCH-D-MV	C	0-1" H2O	Differential	20 mV	80.00	72.00	56.00
683-5INCHDMV	5INCH-D-MV	C	0-5" H2O	Differential	20 mV	74.00	66.60	51.80
683-20INCHDMV	20INCH-D-MV	C	0-20" H2O	Differential	20 mV	74.00	66.60	51.80
683-30INCHDMV	30INCH-D-MV	C	0-30" H2O	Differential	20 mV	74.00	66.60	51.80