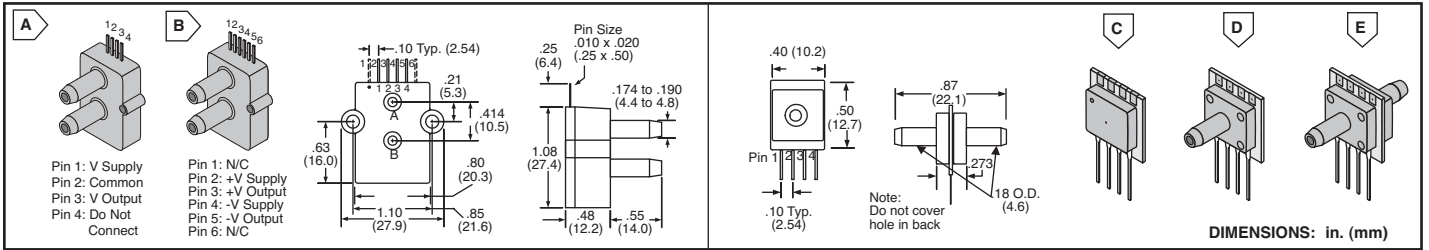


ALL SENSORS Silicon Pressure Sensors



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-+5.5 VDC
- Output of the device is ratiometric to the supply voltage

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

Applications: • Compatible to Sensym ASCX Series

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
683-1PSI-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	90.00	82.00	68.00
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: 16 VDC max.
- Ratiometric output
- Compensated temperature range: 0°C to 70°C
- Operating temperature: -25°C to +85°C

Applications:

- HVAC • Medical instrumentation • Environmental controls

Features:

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

0.25% Linearity

• Common-mode pressure: 50 psig

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
683-1PSIDPRIMEV	1PSI-D-PRIME-MV	B	0-1 psid	Differential	18 mV	64.00	57.60	44.80

0.5% Linearity

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

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
683-1PSIDHGMV	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 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
683-0.3PSIDCGMV	0.3PSI-D-CGRADE-MV	B	0-0.3 psid	Differential	20 mV	50.00	45.00	35.00
683-15PSIACGMV	15PSI-A-CGRADE-MV	B	0-15 psia	Absolute	60 mV	40.00	36.00	28.00
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

For quantities of 25 and up, call for quote.

Specifications:

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

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
683-1PSIGHGMINI	1PSI-G-HGRADE-MINI	D	0-1 psig	Gauge	18 mV	60.00	54.00	42.00
683-1PSIFHGMINI	1PSI-GF-HGRADE-MINI	C	0-1 psig	Gauge	18 mV	60.00	54.00	42.00
683-1PSIDHGMINI	1PSI-D-HGRADE-MINI	E	0-1 psid	Differential	18 mV	60.00	54.00	42.00
683-5PSIGHGMINI	5PSI-G-HGRADE-MINI	C	0-5 psig	Gauge	60 mV	50.00	45.00	35.00
683-5PSIFHGMINI	5PSI-GF-HGRADE-MINI	D	0-5 psig	Gauge	60 mV	50.00	45.00	35.00
683-5PSIDHGMINI	5PSI-D-HGRADE-MINI	C	0-5 psid	Differential	60 mV	50.00	45.00	35.00
683-4INCHGHGMINI	4INCH-G-HGRADE-MINI	C	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	D	0-4" H2O	Differential	25 mV	60.00	54.00	42.00
683-10INCHDHGMINI	10INCH-D-HGRADE-MINI	E	0-10" H2O	Differential	20 mV	60.00	54.00	42.00

SURFACE MOUNT BASIC PRESSURE SENSORS

For quantities of 25 and up, call for quote.

Specifications:

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

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 in 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 inH2O	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 +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

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
683-1INCHDMV	1INCH-D-MV	E	0-1" H2O	Differential	20 mV	80.00	72.00	56.00
683-5INCHDMV	5INCH-D-MV	E	0-5" H2O	Differential	20 mV	74.00	66.60	51.80
683-20INCHDMV	20INCH-D-MV	E	0-20" H2O	Differential	20 mV	74.00	66.60	51.80
683-30INCHDMV	30INCH-D-MV	E	0-30" H2O	Differential	20 mV	74.00	66.60	51.80

