

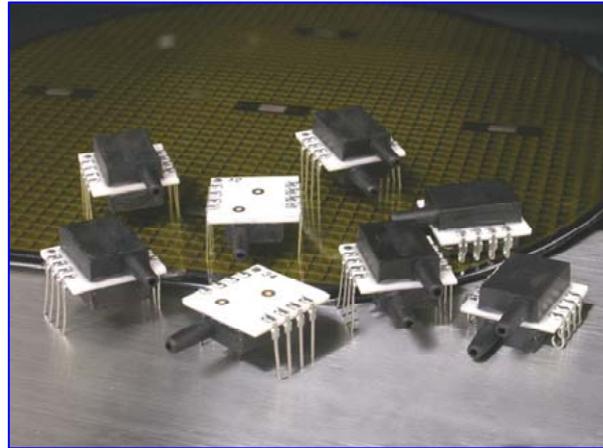
Solid State Pressure Sensor

ANALOG
OUTPUT

CCD Series – Model 54A

FEATURES

- DIP or SMD Package
- Calibrated Span and Offset
- Multi-order Temperature compensation
- Multi choice of output
- 3V or 5V Supply
- Customized Configuration upon request



DESCRIPTION

The Series CCD Model 54A is a smart pressure transducer with ratiometric analog output. Digital compensation of sensor offset, sensitivity, temperature drift and nonlinearity is accomplished in factory via an internal DSP running a correction algorithm with calibration coefficients stored in on-chip EEPROM.

A variety of characteristic configuration, including accuracy, sampling rate, temperature compensated range are available to provide simple and ready-to-use solution for a wide range of application. It can be operated in supply voltage of 3V or 5V, and can be extended to 30V with an external JFET.

The Series CCD 54A is available for pressure range from 0.15 psi to 150 psi. Special configuration as low as 2.5 mbar is also applicable. Please contact factory for detail.

Ordering Information

Series CCD 54 Analog

54A L - XXX G - X 0 X X

Series

Supply Voltage

Blank = 4.75 to 5.25 V
L = 2.75 to 3.33 V

Type of Pressure

G: Gage (Port B only)
H: Gage (Dual Port)
A: Absolute (Port A only)
D: Differential
I: Negative Gage (Port B only)

Option

10: No special request
97: Compensated Temp 0~85 degC

Other options available upon request.

Pressure range

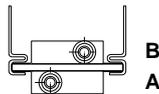
005 = 0 ~ 5 psi
007 = 0 ~ 7 psi
015 = 0 ~ 15 psi
030 = 0 ~ 30 psi
050 = 0 ~ 50 psi
100 = 0 ~ 100 psi
150 = 0 ~ 150 psi
(below are Low-Pressure)
L03 = 0 ~ 0.03 psi
L07 = 0 ~ 0.07 psi
L15 = 0 ~ 0.15 psi
L30 = 0 ~ 0.3 psi
L50 = 0 ~ 0.5 psi
L70 = 0 ~ 0.7 psi
001 = 0 ~ 1 psi
002 = 0 ~ 2 psi
003 = 0 ~ 3 psi

Notes:

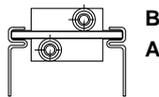
Custom ranges and units are available upon request. Please contact factory.

Leading Direction

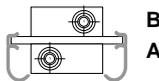
1= Leads opposite side as Port A



2= Leads same side as Port A



3= J-bend Leads same side as Port A



1. Port B is used for positive differential
2. Port A is used for absolute
3. Port B is used for gage

Type of Output

0 = 1-wire P
1 = 1-wire P+T
2 = 0.5 to 4.5 V
3 = 0.2 to 4.8 V
4 = N/A
5 = 0 to 1 V
6 = 0.2 to 4.7 V
7 = N/A
8 = I²C
9 = SPI
S = Special

NOTES:

1. Specifying differential pressure means a \pm pressure range.
2. Differential pressure can be specified to a maximum of +/- 150 psi.
3. Custom output, pressure range and temperature compensated range are available.
4. Negative gage normally has offset (0.5V) at 0 psi and full scale output (4.5V). Reverse is also applicable.
5. Accuracy may vary on pressure range
6. Minimum absolute pressure that can be specified is 15 psia
7. Medium is available for clean air. For other medium please contact factory.

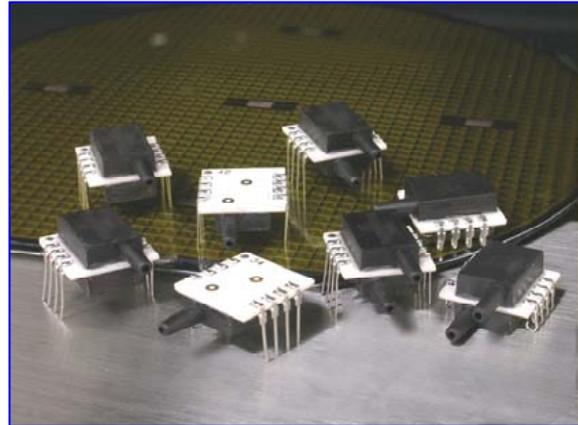
Solid State Pressure Sensor

DIGITAL
OUTPUT

CCD Series – Model 54D

FEATURES

- DIP or SMD Package
- Calibrated Span and Offset
- Multi-order Temperature compensation
- OWI, I²C or SPI Interface
- 3V or 5V Supply
- Customized Configuration upon request



DESCRIPTION

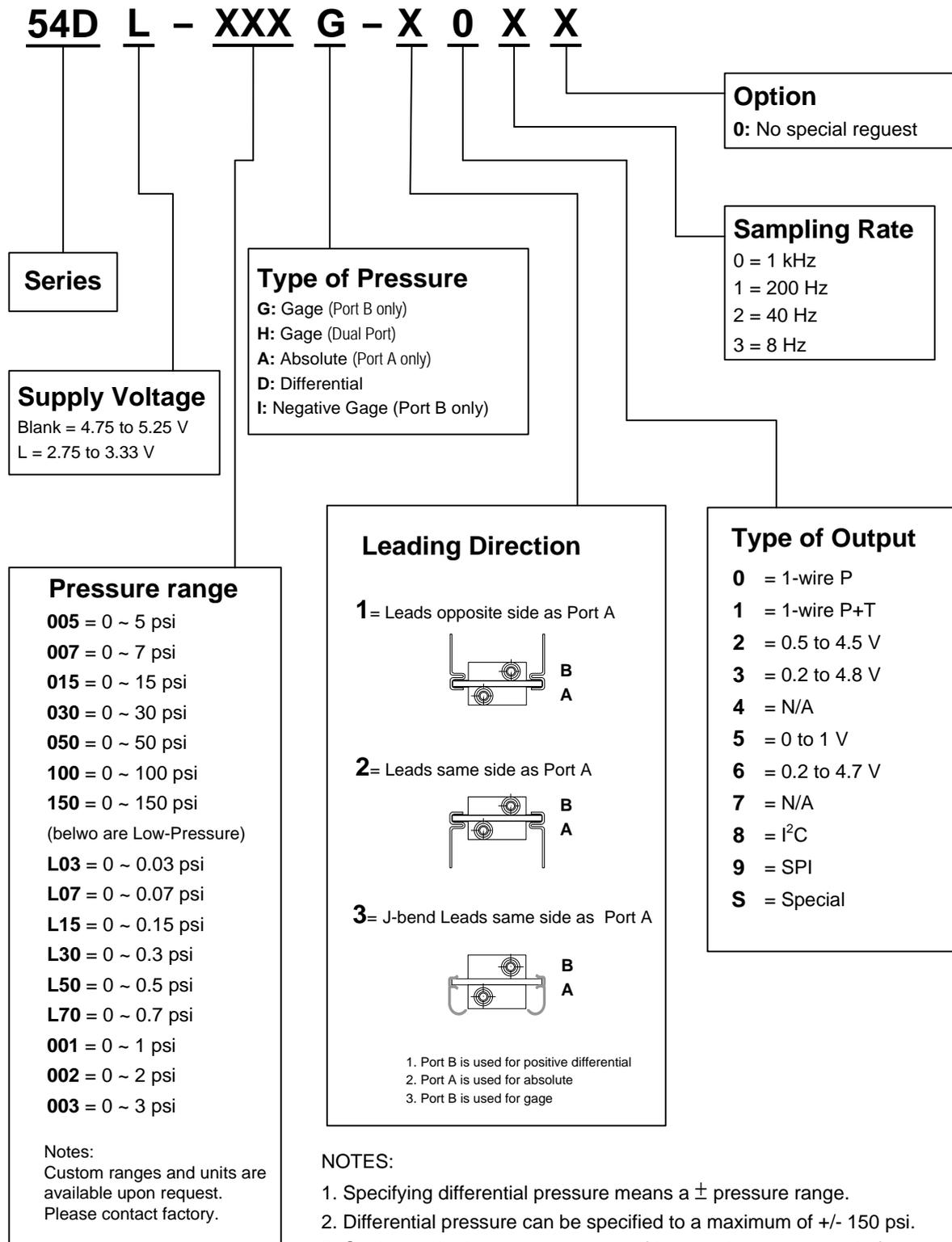
The Series CCD Model 54D is a smart pressure transducer with digital output via 1-wire serial, I²C or SPI interface. Digital compensation of sensor offset, sensitivity, temperature drift and nonlinearity is accomplished in factory via an internal DSP running a correction algorithm with calibration coefficients stored in on-chip EEPROM.

A variety of characteristic configuration, including accuracy, sampling rate, temperature compensated range are available to provide simple and ready-to-use solution for a wide range of application. It can be operated in supply voltage of 2.7 to 5.5 V, and can be extended to 30V with an external JFET.

The Series CCD is available for pressure range from 0.15 psi to 150 psi. Special configuration as low as 2.5 mbar is also applicable. Please contact factory for detail.

Ordering Information

Series CCD 54 Digital



NOTES:

1. Specifying differential pressure means a \pm pressure range.
2. Differential pressure can be specified to a maximum of +/- 150 psi.
3. Custom output, pressure range and temperature compensated range are available.
4. Negative gage normally has offset (0.5V) at 0 psi and full scale output (4.5V). Reverse is also applicable.
5. Accuracy may vary on pressure range
6. Minimum absolute pressure that can be specified is 15 psia
7. Medium is available for clean air. For other medium please contact factory.