

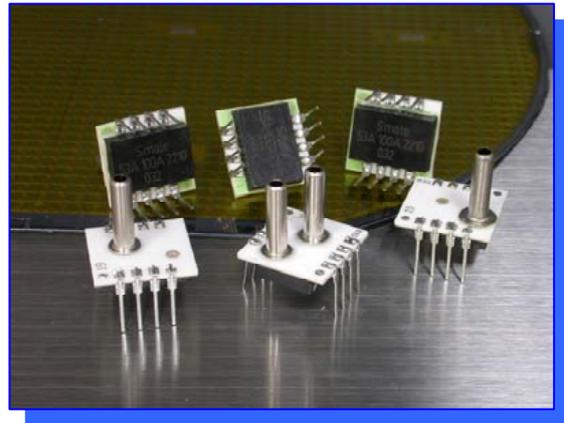
Solid State Pressure Sensor

ANALOG
OUTPUT

CCD Series – Model 53A

FEATURES

- DIL/SMD Ceramic Package
- Calibrated Span and Offset
- Multi-order Temperature Compensation
- Ratiometric Analog Output
- 150 PSI maximum
- Customized Configuration Available



DESCRIPTION

The Series CCD 53A is a smart pressure sensor with calibrated and amplified output. The ceramic hybrid package performs excellent isolation to external stress during operation. 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 output configuration, including resolution, sampling rate, output interface are available to provide simple and ready-to-use solution for a wide range of application.

The Series CCD 53A 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 53 Analog

53A 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 (Dual Port)

Option

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

Other options available upon request.

Pressure range

Medium Pressure

003 = 0 ~ 3 psi

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

Low Pressure

L15 = 0 ~ 0.15 psi

L30 = 0 ~ 0.3 psi

L50 = 0 ~ 0.5 psi

L70 = 0 ~ 0.7 psi

Ultra-low Pressure

L03 = 0 ~ 2.5 mbar

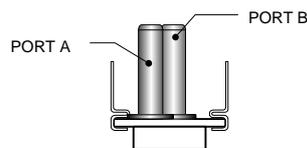
L07 = 0 ~ 5 mbar

Notes:

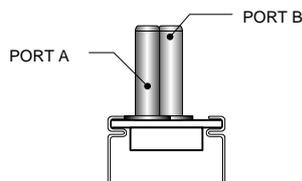
Custom ranges and units are available upon request. Please contact factory.

Leading Direction

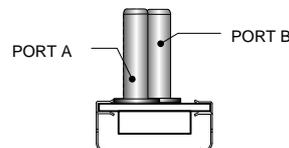
1 = Leads same side as Port Metal



2 = Leads opposite side as Port Metal



3 = Leads for surface mount



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. Custom output, pressure range and temperature compensated range are available.
2. Negative gage normally has offset (0.5V) at 0 psi and full scale output (4.5V). Reverse is also applicable.
3. Accuracy may vary on pressure range
4. Minimum absolute pressure that can be specified is 100 psia
5. Medium is available for clean air. For other medium please contact factory.

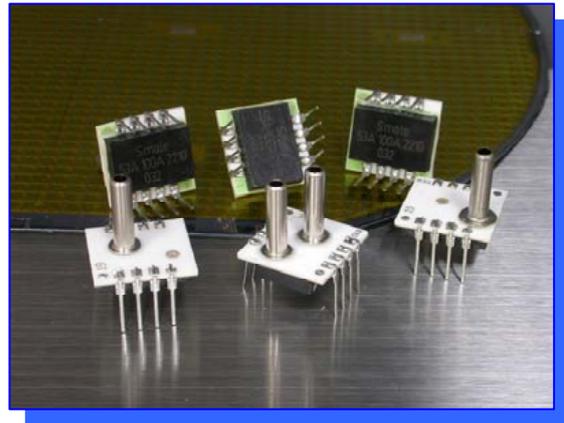
Solid State Pressure Sensor

DIGITAL
OUTPUT

CCD Series – Model 53D

FEATURES

- DIL/SMD Ceramic Package
- Calibrated Span and Offset
- Multi-order Temperature Compensation
- OWI, I²C or SPI Interface
- 3V or 5V
- Customized Configuration Available



DESCRIPTION

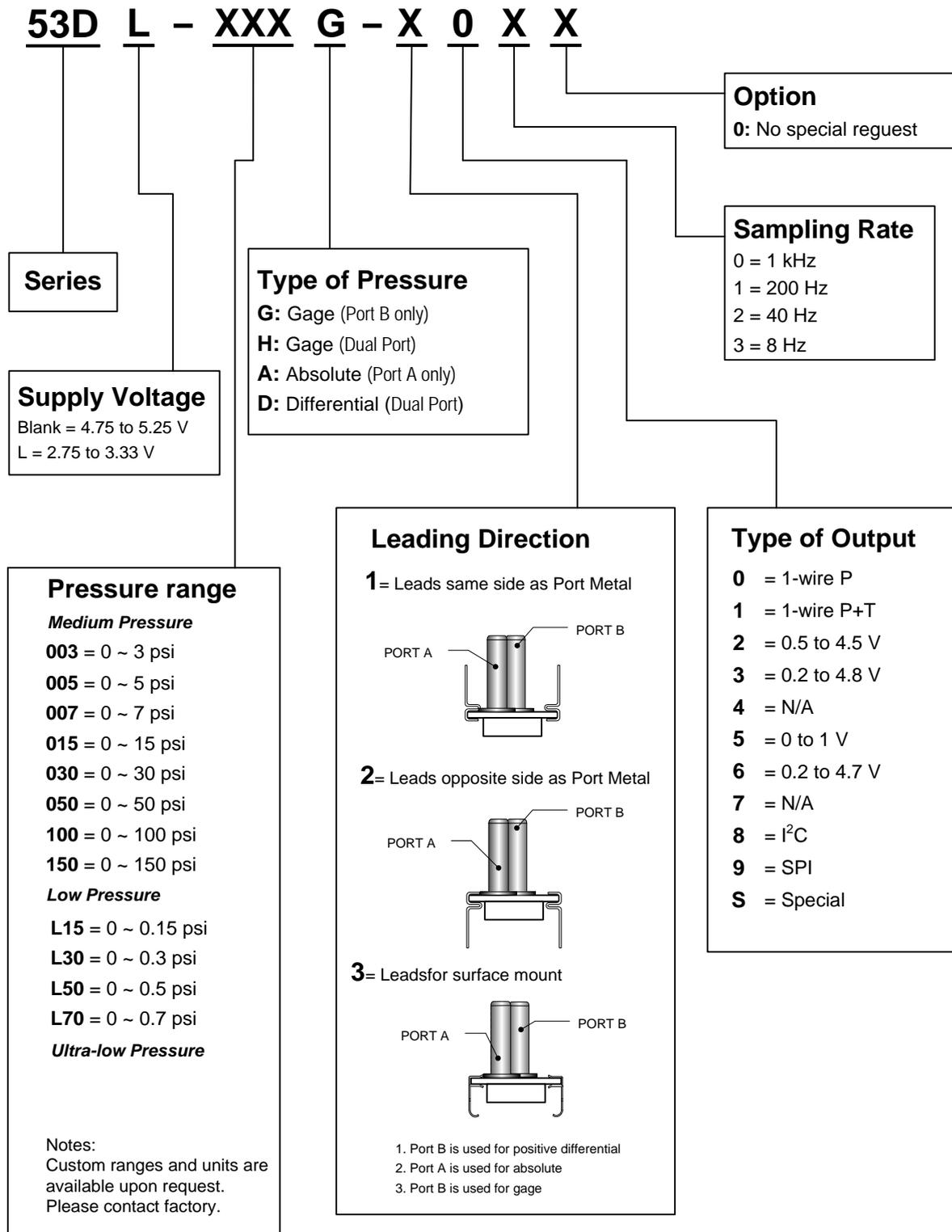
The Series CCD 53D is a smart pressure sensor with calibrated and digital output. The ceramic hybrid package performs excellent isolation to external stress during operation. Digital compensation of sensor offset, sensitivity, temperature drift and nonlinearity is accomplished in factory via an internal DSP running a correction algorithm with calibration coefficients stored in on-chip EEPROM.

A variety of output configuration, including resolution, sampling rate, output interface are available to provide simple and ready-to-use solution for a wide range of application.

The Series CCD 53D 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 53 Digital



NOTES:

1. Custom output, pressure range and temperature compensated range are available.
2. Negative gage normally has offset (0.5V) at 0 psi and full scale output (4.5V). Reverse is also applicable.
3. Accuracy may vary on pressure range
4. Minimum absolute pressure that can be specified is 100 psia
5. Medium is available for clean air. For other medium please contact factory.