



## HSCMRNxx Low Pressure Sensors

### General Description:

The new TruStability™ Silicon Pressure Sensor HSC Series and SSC Series offer different accuracies and compensated temperature ranges that address specific segment needs. These devices offer customers three key benefits not found in competitive silicon sensors: Stability: These sensors are the most stable silicon pressure sensors available; Accuracy: They are designed to provide an extremely tight accuracy specification; and Flexibility: Their modular and flexible design offer customers a variety of package styles and options, all with the same industry-leading performance specifications.

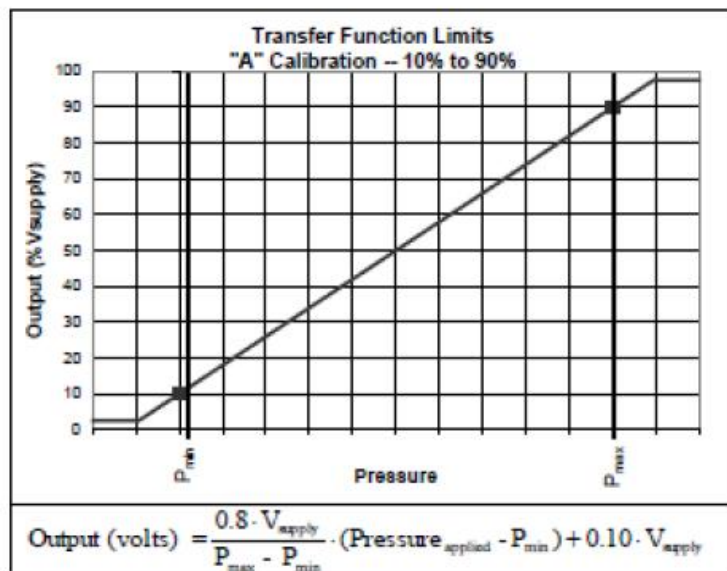


These sensors are intended for use with non-corrosive, non-ionic working fluids such as air and dry gases. They are designed to provide digital correction of sensor offset, sensitivity, temperature coefficients and non-linearity. Industry-leading stability helps prevent drift over time or from temperature extremes.

### Key Features:

- Industry leading long-term stability
- Extremely tight accuracy of  $\pm 0.25\%$  FSS BFSL
- Total error band of  $\pm 2\%$  full scale span max.
- Low operating voltage
- Extremely low power consumption
- Ratiometric 12-bit analog output
- RoHS compliant
- Virtually insensitive to mounting direction
- Internal diagnostic functions increase system reliability
- Absolute, differential, gage, and compound types
- Custom calibration available
- Various pressure port options

### Transfer Functions and Limits



### Applications:

- Medical

- Airflow monitors
- Anesthesia machines
- Blood analysis machines
- Gas chromatography
- Gas flow instrumentation
- Kidney dialysis machines
- Oxygen concentrators
- Pneumatic controls
- Respiratory machines
- Sleep apnea equipment
- Ventilators
- Industrial
  - Barometry
  - Flow calibrators
  - Gas chromatography
  - Gas flow instrumentation
  - HVAC
  - Life sciences
  - Pneumatic controls

## Related Products Information:

Mfr Part #	Farnell #	Newark #	Description
HSCMRNN001BGAA5	1778672	23R9207	Low Pressure Sensors
HSCMRNN001BG2A5	1751289	23R9208	Low Pressure Sensors
HSCMRNN001PG2A3	1751290	23R9209	Low Pressure Sensors

