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2500 PSI Brake Pressure Sensor Installation and Calibration

Corsa #: PS2500G-B
Label: MSP-400-2K5-P3-N-1
Range: 0 -- 2200 psi (gauge)
Scale: 1.6 mv / PSI
Zref: 500 mv nominal

Installation:

The sensor has a 1/4" NPT male pipe thread. This is the same thread used on most ordinary pressure gauges. A stainless steel 1/8" NPT adapter is available from Corsia or from other suppliers.

Mount the sensor where it is protected from high temperatures. It will operate up to 250° F, but is rated to maintain 1.5% accuracy only up to 200° F. If the fluid being measured is hot, mount the sensor with a few inches of small diameter pipe so the fluid near the sensor is stagnant and relatively cool. Make sure the sensor is mounted so vibration won't work the fittings loose or crack the tubing.

Compatibility:

All the parts of the sensor exposed to the working fluid are stainless steel. The sensor can withstand up to 5,000 PSI without damage, and rated burst pressure is 12,500 psi.

Configuration:

When creating the configuration file, set the Scale and Zero Reference (Zref) as follows:

Scale: **1.60 mv/PSI**
Zero Reference: **500 mv**

For better accuracy, you can set the exact zero reference to match your sensor. With no pressure applied to the sensor, use the Read feature (Alt-Box-Read) and observe the value for the appropriate channel. Write down this value and enter it as the Zref for that channel. This should be close to 500mv. For one Corsia system and one pressure sensor, this number will not change much over time, so it is not necessary to do this calibration procedure before each test. We suggest that you do this at the beginning of the season, or whenever you change the wiring or move the sensor.



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Wiring note for MSI pressure sensors

Black	= ground
Bare shield	= ground
Red	= +5 volts supply
White or clear	= signal out
Green (if any)	= no connection