RaceGrade

Document Number		RG_SPEC-0006	
Title		Aero 8 Sensor	
Revision	Date	Prepared By	Change History
1.21	09/29/2011	Chris Brown	Updated weight.

Introduction

This sensor has 8 inputs measuring dynamic differential pressure compared to a single static reference port. Sensor output is a 0-5 volt variable voltage.

Mounting

This sensor should be mounted with soft Velcro to help absorb vibrations.

Specifications:

- Part #: Output Method: Resolution: Update Rate: Response Time: Supply Voltage: Temp Range: Weight:
- M AERO 8 0 - 5 volt DC 0.01 kPa > 1000 Hz 0.001 sec 5 VDC -20° to 85° C 170 g

Calibration:

Connection:

Mating connector: AS610-35SN

- pin 1 Port 1
- pin 2 Port 2
- pin 3 Port 3
- pin 4 Port 4
- pin 5 Port 5
- pin 6 Port 6
- pin 7 Port 7
- pin 8 Port 8
- pin 9 0 volts
- pin 10 5 volt, for using "Ratiometric" setup
- pin 11 5 volt, tied internally to pin 10
- pin 12 no connection
- pin 13 6 to 20 volt, for "Absolute Voltage" setup

The M Aero 4 was designed to use only one voltage input. Use either pin #10 or pin #13, do not use both. When using pin #13, there is an internal 5 volt regulator which supplies voltage to the sensor.







