

<b>Document Number</b>		RG_SPEC-0004	
<b>Title</b>		Aero 1 Sensor	
<b>Revision</b>	<b>Date</b>	<b>Prepared By</b>	<b>Change History</b>
1.22	09/29/2011	Chris Brown	updated connection info, picture and weight, part #

## Introduction

This sensor has a single input to measure dynamic differential pressure compared to a reference port. Sensor output is a 0-5 volt variable voltage. Often used for measuring pressure differences in a pitot tube.

## Mounting

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

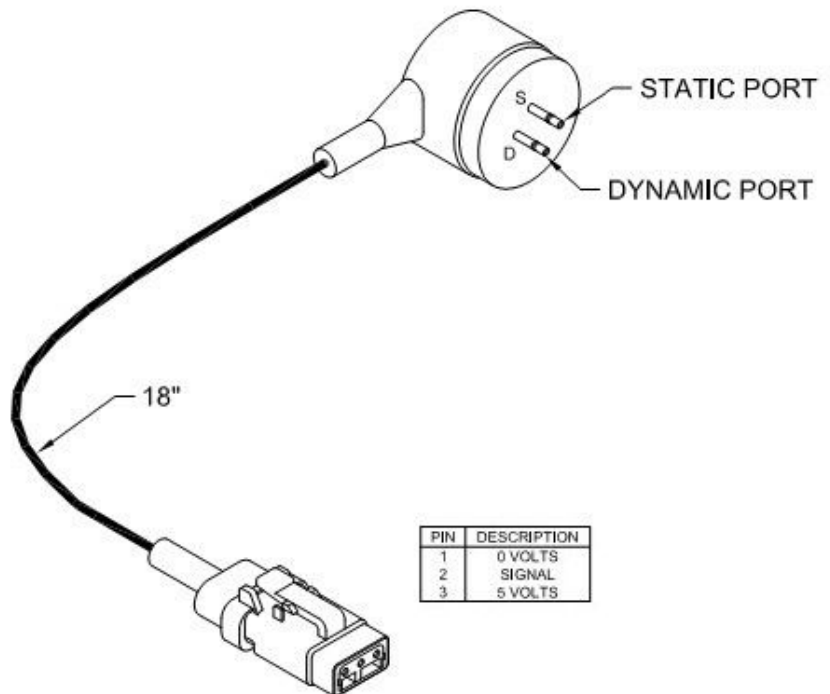
## Specifications:

Part #:	M AERO 1
Output Method:	0 – 5 volt DC
Resolution:	0.01 kPa
Update Rate:	> 1000 Hz
Response Time:	0.001 sec
Supply Voltage:	5 VDC
Temp Range:	-20° to 85° C
Dimensions:	1.13" dia, 0.86" h
Weight:	34 g



## Calibration

$\Delta$ -60" H <sub>2</sub> O =	-14.95 kPa = 0.25 vdc
$\Delta$ -30" H <sub>2</sub> O =	-7.47 kPa = 1.25 vdc
$\Delta$ 0" H <sub>2</sub> O =	0.00 kPa = 2.25 vdc
$\Delta$ 30" H <sub>2</sub> O =	7.47 kPa = 3.25 vdc
$\Delta$ 60" H <sub>2</sub> O =	14.95 kPa = 4.25 vdc



## Connection:

- 8" lead, mating connector:  
DTM04-3P (part # M DTM-3PK)
- Pin 1 – 0 volts
  - Pin 2 – signal
  - Pin 3 – 5 volts