

# RaceGrade

<b>Document Number</b>		RG_SPEC_0030	
<b>Title</b>		RaceGrade APT-G2-DTM Pressure Transducer	
<b>Revision</b>	<b>Date</b>	<b>Prepared By</b>	<b>Change History</b>
1.1	8/26/14	Hannah Westbrook	Initial release
1.6	8/7/23	Kyle McClelland	Sensor input capability calcification

## Introduction

This APT-G2-DTM Pressure Transducer produces a DC voltage proportional to the pressure reading. It provides accurate and repeatable sensor readings by accounting for the effects of temperature, hysteresis and non-linearity. Featuring a wetted stainless steel design, it is compatible with all fluids and is hermetically sealed with an IP 67 ingress rating. It comes with a 3/8-24 UNJF3A (-3AN) as the pressure port, and a 3 pin DTM connector. Multiple pressure ranges are available.

**\*\* This sensor is ambient referenced and should *not* be used for manifold air pressure\*\***

## Part #

## Range\*\*

M APT G2 DTM 100A -14.7 to 100 PSI Compound  
M APT G2 DTM 150G 0.0 to 150 PSI Gauge  
M APT G2 DTM 200G 0.0 to 200 PSI Gauge  
M APT G2 DTM 2000G 0.0 to 2000 PSI Gauge

## Calibration:

0.5v = Full scale minimum PSI

4.5v = Full scale maximum PSI

## Specifications:

- Fitting: 3/8-24UNJF3A(-3AN)
- Output: 0.5 to 4.5 Vdc
- Supply: 5 +/- 0.5 Vdc
- Current: < 4 mA
- Temperature Range: -40°C to 125°C
- Total Error: 1.0 % of F.S. Pres
- Proof Pressure: 2 x F.S. Pres
- Burst Pressure: 5 X F.S. Pres
- Response time : < 1 ms
- Main Seal: Wetted Stainless
- Weight: 46 grams
- Random Vibration : 20g

## Connection:

Mating connector: DTM-3SK\*\*

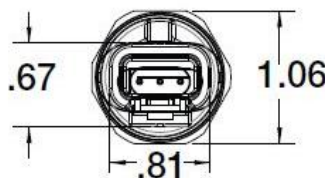
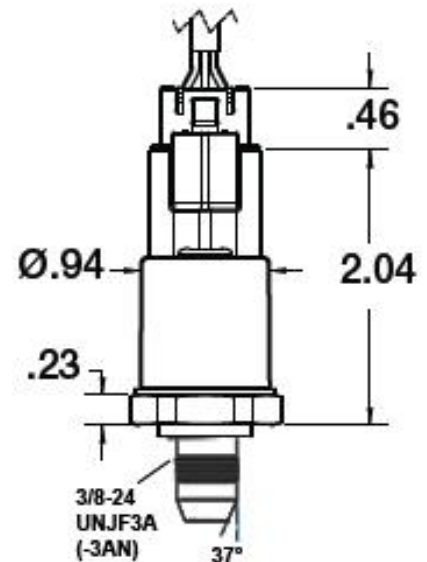
pin 1 – 5v

pin 2 – 0v

pin 3 – signal



**\*\*\*Not compatible with inputs pulled up above 0v (MoTeC AT inputs)\*\*\***



**\*\*\*Warning:** Applying torque to the plastic sensor body will damage the unit which will void any return privileges. Do NOT hold the sensor by the body when tightening the fluid connection. Only use the stainless steel wrench hex to tighten the fluid connection to the sensor.

## Note:

- Sensor should be mounted remotely to avoid engine vibration damage
- Sensor signal may not be used with a pull-up resistor to supply voltage

**\*\*Contact RaceGrade for information on other termination and range options\*\***