

**NEW**

**AIRCRAFT  
DPM**

**AVIONICS DIGITAL PANEL METER  
FOR MILITARY & COMMERCIAL AIRCRAFT  
REPLACES FORM & FIT NSN: 6620-00-083-8811**

**MODEL  
APM**



**FEATURES:**

- STD. 1" Dia. Barrel
- Only 2.15" Deep
- Night Vision Compliant (NVG3 - Green digits only) Optional
- Replaces HI-LO Needle Type
- (4) 0.25" Full LED Digits (9.9.9.9) with OVR
- Color Options: Green, Red or Blue
- To Published Mil-Spec
- To Your Specifications
- Accepts V/mADC Inputs
- Industrial or Mil-Spec Grades
- External VDC powered (Green, Red or Blue digits)
- 4-20mA Loop Powered (Red or Blue digits only!)
- Automatic Lost Signal Detection
- Int'l/Ext'l Intensity Control
- SORRY, NOT FOR EXPORT WITHOUT D.O.D. APPROVAL



**DESCRIPTION**

O TEK's Model **APM** is a four (4) digit green, red or blue LED indicator that accepts standard avionics power of 28VDC<sub>TM</sub> or 5, 12, 15 & 24VDC (Green, Red or Blue digits) and intensity control voltage of 1.5 - 5V 50-440Hz (or DC/Resistance). O TEK's exclusive Powerless technique allows the APM to be loop powered (Red or Blue digits only!) which requires only 2 wires to operate.

The heart of the **APM** is an **ASIC** that accepts VDC or mADC and can be scaled (internally) to any value. The unit mounts in a standard avionics 1" diameter hole with four (4) mounting screws and connects to Power and signal via a "Twist Lock" circular connector (DBC53H-10-6P, Mating Cable End: MS347640 (L or M) -6S).

The **APM** is fully sealed and it is not affected by differential pressure, liquid spray (NEMA4X) or humidity (See Specs.).

**APPLICABLE MIL-SPECS:**

MIL-STD-461D, 462D, 704E, 130K, 810F, 889B2 & 1472F; MIL-HDBK-217F & 454A.

**SPECIFICATIONS @ 25°C & 5VDC ±10%  
(Commercial Grade Only)**

**Powered Models**

- Power Input Voltage: 5-48VDC
- Power Consumption: 0.25W Max.
- Intensity Control Input: 1.5 - 5 DC/AC or Resistance
- Input Signal: V/mADC (Specify)
- Display: 4 Each 0.25" (6.5mm) LED Green, Red or Blue
- Night Vision Display: Green Digits Only (NVG3 on Request)
- Accuracy & Linearity: ± 0.05% Of Reading
- Sampling Rate: 3/Second
- Input Impedance: 1M Ohms (V) / 50 Ohm (mA)
- Operating Temperature: -20 to +60°C
- Storage Temperature: -30 to +70°C
- Altitude Operating: 50,000 Feet Max.
- Altitude Storage: 60,000 Feet Max.
- Weight: 1.5oz. (42 gm)

**Loop Powered Models**

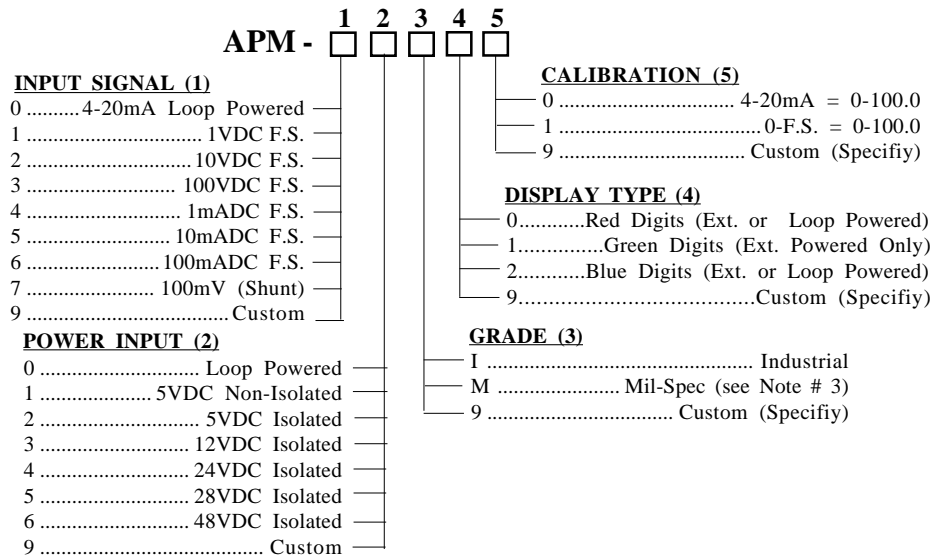
- Burden: 100mW (5V Max)
  - Min-Max Signal: 3.6 -36mA
- Specify Input Signal F.S. vs. Display F.S. & Decimal Point  
1 Other Inputs On Request.

**520-748-7900**  
FAX: 520-790-2808  
E-MAIL:sales@otekcorp.com  
http://www.otekcorp.com

**O TEK**™  
**CORP.**  
SINCE 1974

4016 E. TENNESSEE ST.  
TUCSON, AZ. 85714 U.S.A.





**Notes:**

1. The APM has 4 Full Digits and Overrange Indication over MSD F.S. = 1000 Counts, Max Reading is 9999 + Overrange (19999).
2. Loop Powered Min. Intensity @ 4mA, Max @ 20mA.
3. OTEK will build to certain MIL-Standards but testing and confirmation of compliance, if required, will need to be done by third party and at customer's expense.
4. (Green, Red or Blue) digits for Externally Powered units. (Red or Blue) digits for Loop Powered units.
5. Zero & Span (and D.P.) are Internal before sealing & must be specified (if custom) when ordering.

### MECHANICALS

