

**NEW**

**TRIPLE A. C. POWERLESS™ DISPLAY METER FOR  
AC VOLTS, AMPS, WATTS & Hz, 1Phase-or-3Phase, DELTA or WY**

**MODEL  
TAD**

**FEATURES:**

- Triple 0.6" Display
- Colors: Blue (Top), Red (Middle), Amber (Bottom)
- 50' Readable
- 3 Independent Isolated A/D
- Nuclear, Mil & Industrial
- Plastic or Metal Case
- No Power Supply Needed
- Connects Like Analog, But It Is Digital!
- Peak and Hold on each Channel
- Life Time Warranted

*1/4 DIN CASE*



**SPECIFICATIONS @ 25°C AND INPUT RANGE:**

- \*Accuracy & Linearity:  $\pm 0.1\%$  of F.S.
- \*Input Range (V, Hz & W): 40-150VAC
- \*Input Range Amps: 0.1 to 5A (10A Spike Max.)
- \*Power Consumption: 50mW (Typical) per channel
- \*Zero/Span Adjustment:  $\pm 30\%$  of F.S.
- \*Operating Temp: -10 + 70°C
- \*Storage Temp: -30 + 80°C
- \*Measuring Method: True RMS Calibrated
- \*Humidity: 5-95% RH, N.C.
- \*CMTBF: >100,000 Hours
- \*Connector: Plug-In Screw Terminal
- \*Display: 2 Ea. 3 1/2 Digit (1.9.9.9) 4 1/2 Digits (1.9.9.9.9)
- \*3 Samples Per Second

**DESCRIPTION**

OTEK has taken its **ACS** Series and by popular demand combined 3 out of 4 **A.C.** variables in one case. The **TAD** (Triple **A.C.** Signal Powered **D**isplay) Series is available in either plastic or metal 1/4 DIN cases. The **TAD** displays any 3 AC Variables such as V, A&W, or V, A & Hz single phase or V/A/W 3 phase delta or WY on its large display behind the NEMA 4X filter. The Patented (#4,908,569) and Patent Pending Technology allows the **TAD** to power itself directly from the signal it measures either directly or through a P.T. & C.T. without affecting their integrity.

**Single Phase:** Monitor with one small instrument any 3 out of 4 variables (See Ordering Information).

**Three (3) Phase:** You have a choice of 3 each single phase "**TADs**" (one for each phase) or one "**TAD**" for **VOLTS** (Phases A, B & C) one for **AMPS**, one for **WATTS** and one for **HERTZ**. Contact **OTEK** for your custom configuration.

**IMPORTANT NOTES:**

Just like analog meters, if the signal is too small, the **TAD** will not function but it does not mean there is no power.

Always use **CAUTION** when connecting/disconnecting the **TAD** from the mains or **PT/CT**.

There is **NO** internal isolation from **V** & **A** when using **Watts** function. Always use a C.T. and P.T.

**OTHER RELATED MODELS:**

**PMC:** Power Management Controller

**ACS:** AC Signal Powered Bargraph's & DPM's

**CTT:** C.T. Powered 4-20mA Transmitter

**ACL:** AC Signal Powered 4-20mA Transmitter

**TAC:** Same as TAD, in Switchboard case



**If You Don't See It  
Ask For It!**

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**OTEK**™  
CORP.  
SINCE 1974

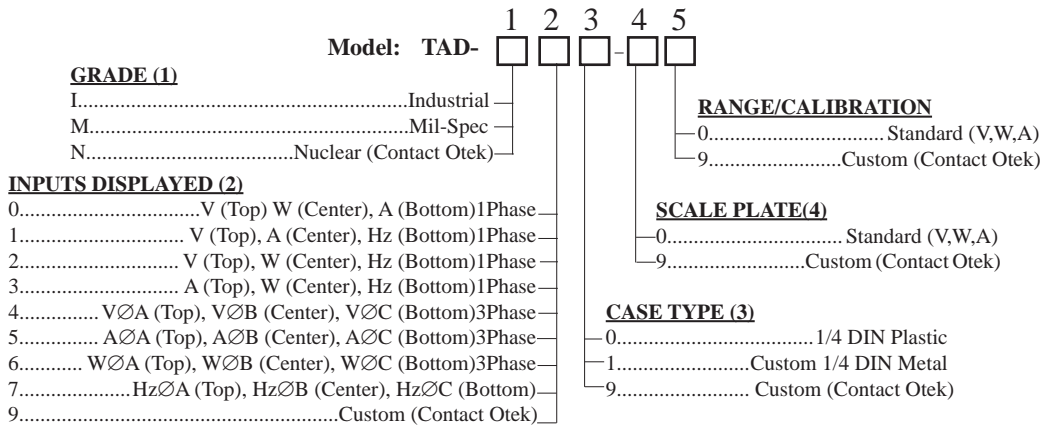
4016 E. TENNESSEE ST.  
TUCSON, AZ. 85714 U.S.A.

MADE  
IN  
USA



# TAD SERIES

## ORDERING INFORMATION 1-5-12



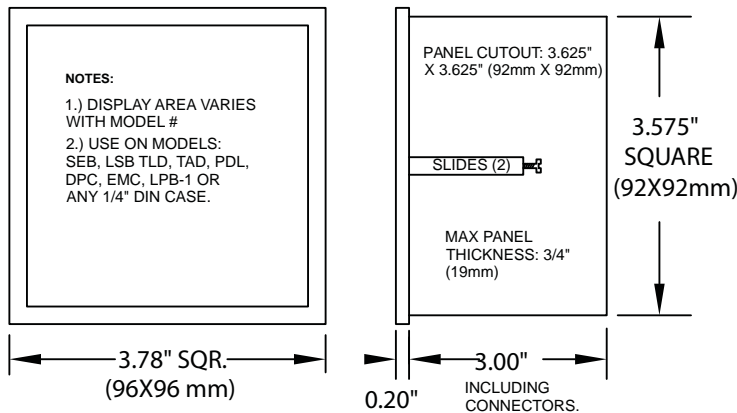
**NOTES:**

1. **N** to 10CFR50B, **M** to your Mil-Specs, **I** to these specifications. Otek will build to certain nuclear or MIL-standards but testing and confirmation of compliance, if required, will need to be done by a third party and at customer's expense.
2. Standard full scale inputs are: 50-120VAC, 0.1 to 5 Amps (specify Amps calibration, ie: 5A = 1000 Counts), 40-70 Hertz (100Hz = 100.0 Counts). For 400Hz (400Hz = 400 Counts) use #9 and specify. For custom, use #9 and specify.
3. For "M" Grade, Metal Case must be ordered.
4. Standard filter printing as shown. For custom, use #9 and specify.

## MECHANICAL INFORMATION

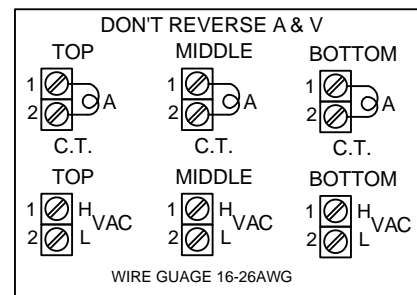
**STANDARD 1/4" DIN CASE & PANEL CUTOUT**

FIG. DIN-CSE



**MOD. TAD TYPICAL CONNECTIONS**

FIG. TAD



- NOTES: 1.) USE 10A FUSE FOR AMPS & 1A FOR VOLTS.  
 2.) USE 5A.C.T. & 120V P.T.  
 3.) SHOWN FOR 3 Φ, FOR 1 Φ ONLY THE "MIDDLE" CONNECTORS ARE INCLUDED.