

**NEW**

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

**MODEL  
TAC**

**FEATURES:**

- Triple 0.6" & 0.8" 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's Digital!
- Life Time Warranted



ANSI 4" Switchboard  
(Nothing Behind Panel)

**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: 3 Ea. 3 1/2 Digit (1.9.9.9)
- \*3 Samples Per Second

**DESCRIPTION**

OTEEK has taken its **ACS** Series and by popular demand combined 3 out of 4 **A.C.** variables in one case. The **TAC** (**Triple A.C.** Signal Powered) Series is available in either plastic or metal **ANSI 4"** (Switchboard). The TAC has no depth behind the panel ( only 1 1/2" on the front). The **TAC** 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 3 1/2 digit display behind the NEMA 4X filter. The Patented (#4,908,569) and Patent Pending Technology allows the **TAC** 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 "**TACs**" (one for each phase) or one "**TAC**" for **VOLTS** (Phases A, B & C) one for **AMPS**, one for **WATTS** and one for **HERTZ**. Contact **OTEEK** for your custom configuration.

**IMPORTANT NOTES:**

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

Always use **CAUTION** when connecting/disconnecting the **TAC** 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:**

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

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

**TAD:** AC Signal Powered in 1/4 DIN case



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

**520-748-7900**

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http://www.otekcorp.com

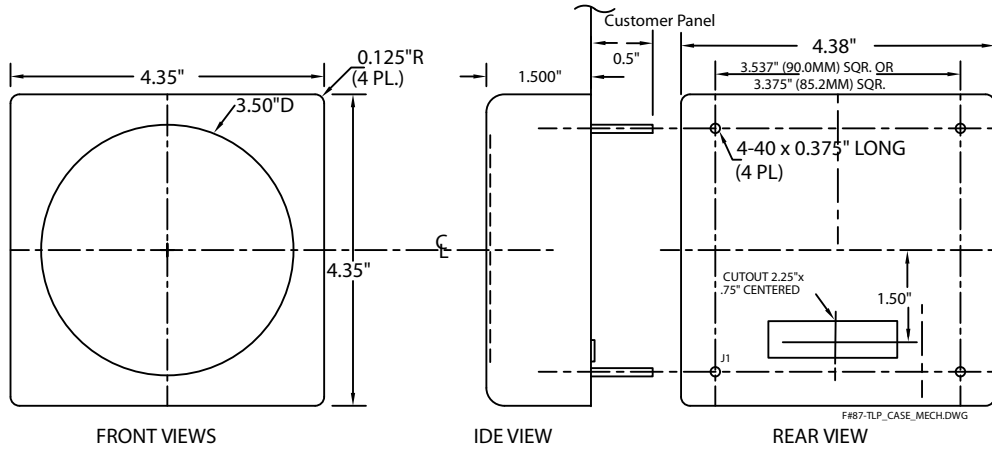
**OTEEK™**  
**CORP.**  
SINCE 1974

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

MADE  
IN  
USA



# TAC MECHANICAL FOR SWITCHBOARD (OPTIONS 0, 1, 4 & 5)



**NOTE:**

- ANSI 4"(3.375") CASE CAN ALSO BE MOUNTED IN 1/4 DIN PANEL CUTOUT.
- CONNECTORS AND 3.375" STUDS SPACING MEET ANSI39.1 STANDARD FOR SWITCHBOARD METERS. J1 FALLS WITHIN EXISTING 4" DIA. "BARREL" CUTOUT.

**Note:**

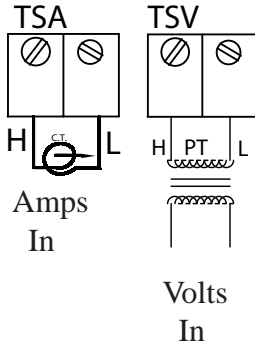
- TS1 & TS2 connectors and 3.375" studs spacing meet ANSI 39.1 standard for switch board meters. TS1 & TS2 fall within existing "Barrel" cutout. Connectors accept 16-26 Ga wire.

## TYPICAL CONNECTIONS SWITCHBOARD (OPTIONS 0, 1, 4 & 5)

**WARNING: H.V. MIGHT BE PRESENT! USE 10A S.B. with Amps & 1A with Volts**

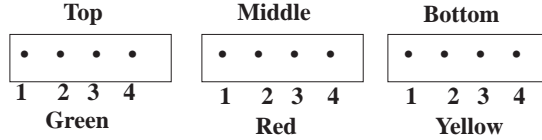
(1 Phase, V, A, W or Hz)

**Options 0-3**



**DECIMAL POINT SELECTION**

Remove Power

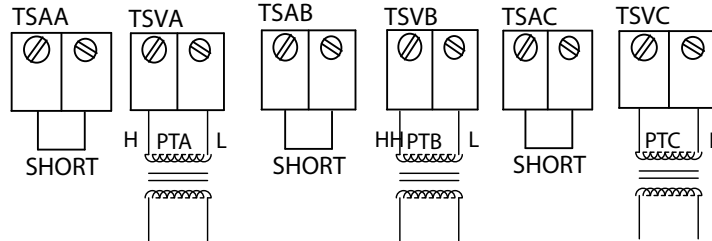


**D.P.**

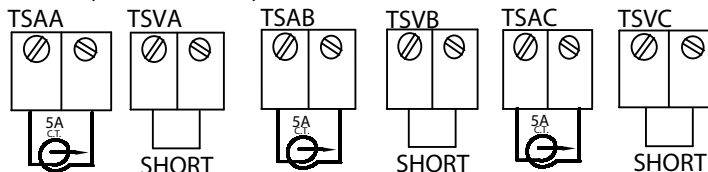
- xxxx - None
- x.xxx - 3 & 4
- xx.xx - 1 & 2
- xxx.x - 1 & 2 and 3 & 4

**OPTION 4 OR 7**

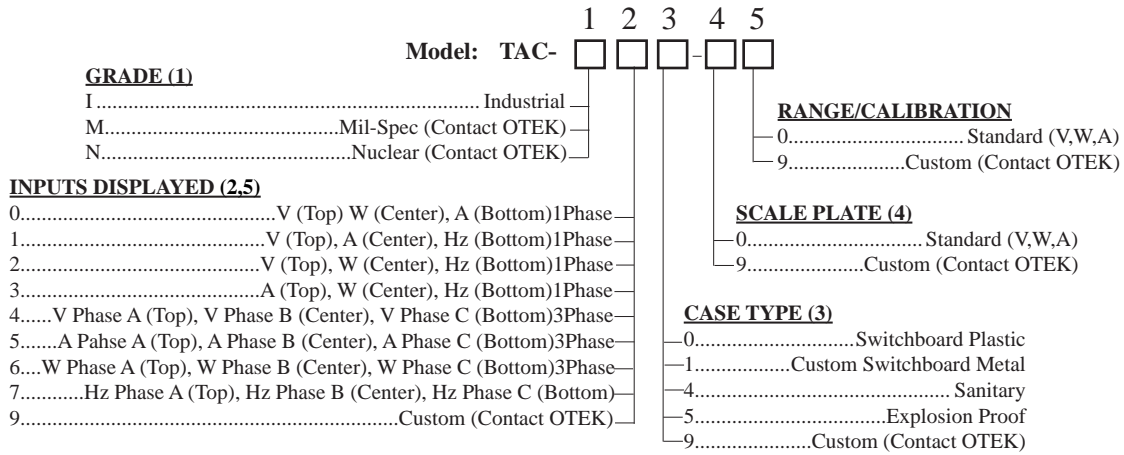
(3 PHASE VOLTS OR Hz)



**OPTION 5 (3 PHASE AMPS)**



# TAC SERIES ORDERING INFORMATION 3-26-13



**NOTES:**

1. **N** to 10CFR50B, **M** to your Mil-Specs, **I** to data sheet 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 option 9 and specify. For custom, use #9 and specify.
3. For "M" grade, metal case must be ordered.
4. Standard filter printing is shown on data sheet. For custom, use option 9 and specify.
5. Warning: Option 6 is not isolated between channels but NOT between the input and within its terminals.

**DOWNLOADS:** For manuals, user-software or drivers:  
[www.otekcorp.com](http://www.otekcorp.com)