TACHTROL® 20
Single Input
Digital Tachometer

Part Number Series
T77250
CE
RoHS

TACHTROL® 20:

The newest member of the **AI-TEK** Tachometer family.

The **TACHTROL® 20** is a single input digital instrument designed to provide the versatility and flexibility needed to accommodate virtually any rate measuring application. Configurable to display application-specific rate information in raw frequency or engineering units such as RPM or FPM.

The **TACHTROL® 20** can accommodate magnetic pickups, logic sensors, and NPN open collector sensors. The pulses are received and scaled so the desired display can be achieved. The meter is programmed through both the front panel buttons and DIP switches. Once the programming is complete, the front panel buttons can be disabled by a DIP switch setting.

The meter has been specifically designed for harsh industrial environments. With NEMA 4X/IP65 sealed bezel and extensive testing to meet CE requirements, the meter provides a tough, yet reliable application solution.

FEATURES AND ADVANTAGES:

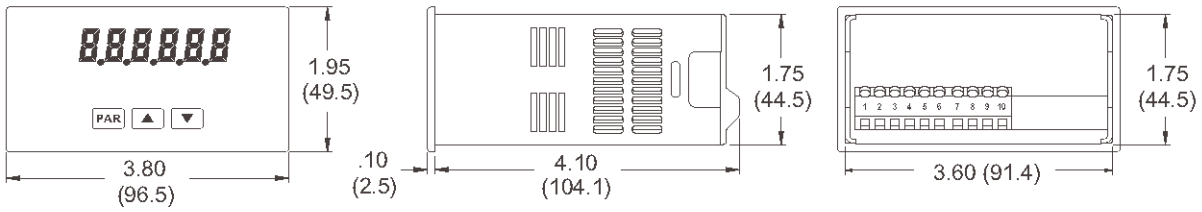
- Single-channel precision speed or rate monitoring
- Field adjustable scaling
- Bright six-digit LED display
- Wide frequency range 0.1 to 25 kHz
- Active or passive sensor input
- Panel Mount 1/8 DIN standard housing
- Fast response
- Low cost
- Easy set-up
- High precision
- Operating temperature range 0° to 60° C
- AC power: 115 / 230 volts selectable
- DC power: 10-16 volts at 0.1A max

It is the customer's responsibility to determine whether the product is proper for customer's use and application.

AI-Tek Instruments, Cheshire, CT USA

DIMENSIONS In inches (mm)

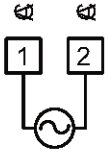
Note: Recommended minimum clearance (behind the panel) for mounting clip installation is 2.1" (53.4) H X 5" (127) W.



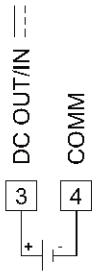
PANEL MOUNT STANDARD ENCLOSURE

3.1 POWER WIRING

AC Power
Terminal 1: VAC
Terminal 2: VAC

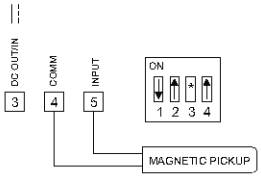


DC Power
Terminal 3: +VDC
Terminal 4: COMM

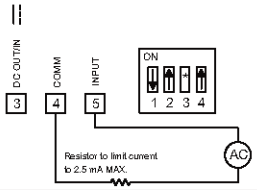


3.2 INPUT WIRING

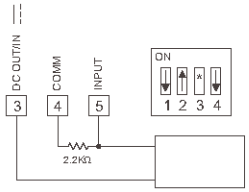
Magnetic Pickup



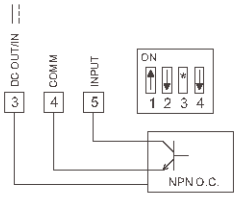
AC Inputs From Tach Generaters, Etc.



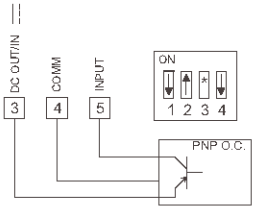
Two Wire Proximity, Current Source



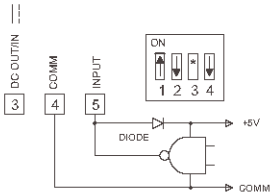
Current Sinking Output



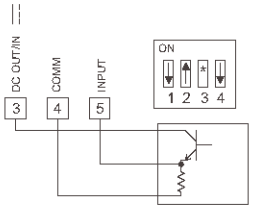
Current Sourcing Output



Interfacing With TTL



Emitter Follower; Current Source



*Switch position is application dependent.

SAFETY SUMMARY

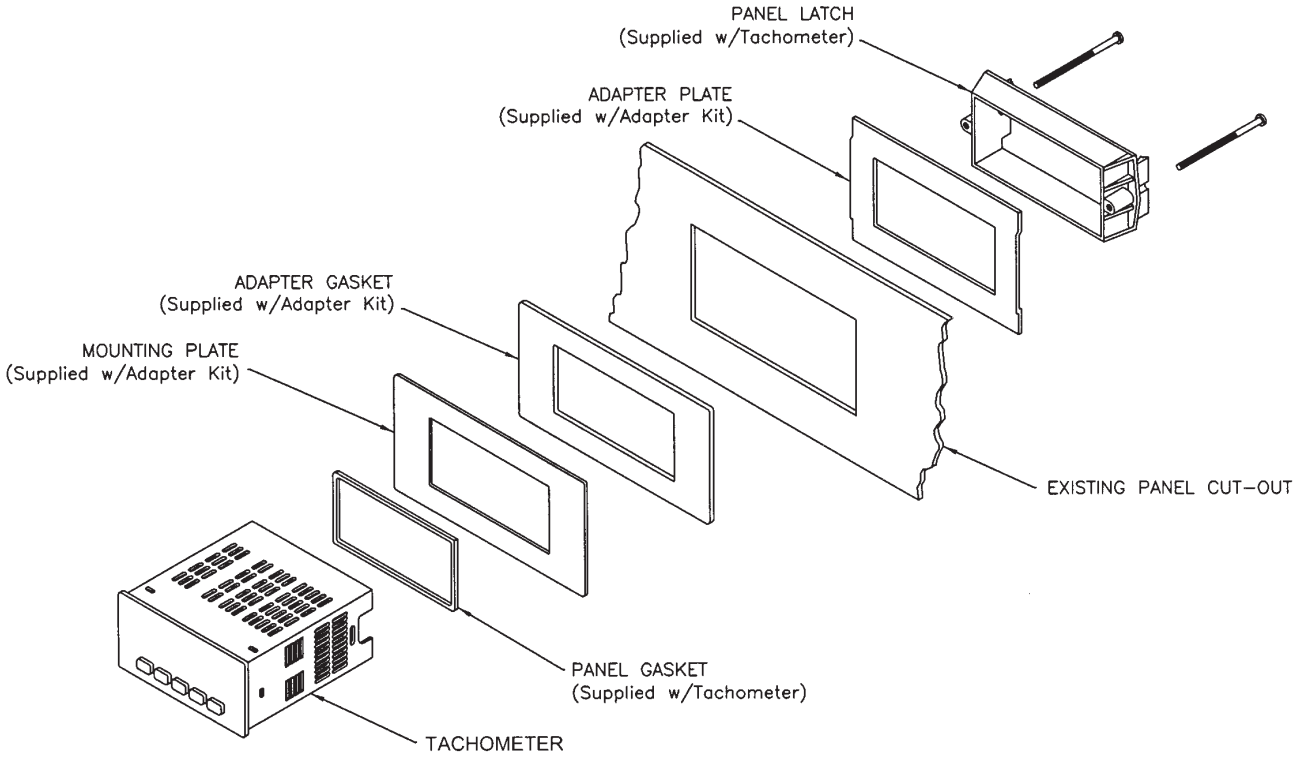
All safety related regulations, local codes and instructions that appear in the literature or on equipment must be observed to ensure personal safety and to prevent damage to either the instrument or equipment connected to it. If equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

CAUTION: Risk of Danger. Read complete instructions prior to installation and operation of the unit.

CAUTION: Risk of electric shock.

TACHTROL® 20
Panel Mount Adapter Installation Instructions

1. Apply the panel gasket *(supplied with Tachometer)* over the **TACHTROL® 20** meter.
2. Insert the **TACHTROL® 20** meter through the mounting plate.
3. Apply the panel gasket *(supplied with the adapter kit)* over the **TACHTROL® 20** meter behind the mounting plate.
4. Insert the **TACHTROL® 20** meter with mounting plate and gaskets into the front of the existing **Tachtrol 2** meter hole cut-out. Slide the adapter plate over the rear of the **TACHTROL® 20** meter.
5. Slide the panel latch *(supplied with the Tachometer)* over the rear of the **TACHTROL® 20** meter and tighten the screws.



TACHTROL® 20 PANEL MOUNT ADAPTER — P/N: 675-0303-001

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