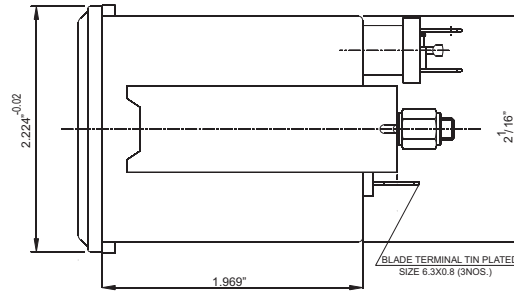


2 1/16" Programmable Electronic Tachometer Driven by Alt/Ign coil



Description : The tachometer is an instruments that measures engine speed by displaying the number of revolutions per minute (RPM) of the engine crank shaft.

Principal : Tachometer takes input from alternator or Ignition coil and through proper filter, it converts into square signal which is fed to frequency to voltage converter IC. This IC generates waves which are 90° apart that drives the air core as per the rpm of the engine.

Applications : For trucks, tractors and for stationery engines.

Technical data :

Operating Voltage: 11-28 V

Formula :

(a) For Ignition coil Driven Tachometer

$$\text{Full scale (Hz)} = \frac{(\text{No. Of Cylinders} / 2) \times \text{Full scale RPM}}{60 \text{ seconds per minute}}$$

(b) For Alternator Driven Tachometer

$$\text{Full scale (Hz)} = \frac{(\text{Alt. Pulses/ revolution}) / \text{Pulley Ratio} \times \text{Full scale RPM}}{60 \text{ seconds per minute}}$$

$$\text{Alt. Pulses/ revolution} = \text{No of Poles in Alternator} / 2$$

$$\text{Pulley Ratio} = \frac{\text{Crankshaft Pulley Diameter}}{\text{Alternator Pulley Diameter}}$$

August 2009

AT A GLANCE

FEATURES

- . For 2" Mounting Hole
- . High Accuracy
- . Linear Scale
- . Comply with SAEJ - 1399
- . Heavy Duty Construction using Superior Materials
- . Programmable
- . Wide Pulse Range
- . Instrument Available for Gasoline Driven & Petrol Driven
- . Flat Polycarbonate lens with Black / Stainless-Steel Bezel
- . Easy Clamp mounting
- . Blade Terminal 6.3 x 0.8 as per DIN46244
- . Vibration 5g peak for 8 Hours in each axis; 10-2000-10Hz; Display= 1.5mm; Acc.=69.3m/sec 2

Sr.	Part No. Bezel Stainless steel / Black	Dial Range	Pulse Range	Blade Type
1.	37122 37092	0 - 4000	1 -3 Pulses & 8 -16 Pulses	6.3 x 0.8
2.	37178 37112	0 - 8000	1 -3 Pulses & 8 -16 Pulses	6.3 x 0.8

