Series N160 MotorTACH Meter
Monitor equipment RPM & run hours on any rotating shaft.
Available with Flash Alert™ option as a service reminder.

GDi
GLOBAL DIGITAL INSTRUMENTS

The GDI MotorTACH performs Tachometer, Hour meter, and Flash Alert functions on ANY rotating shaft, rotating gear, or pulley. The MotorTACH can be used on Diesel engines, Compressors, Motors, Process equipment, Power equipment, Generators, or a host of other equipment. For tachometer version, while the equipment is running the RPM will be displayed on the LCD. When the equipment shuts off, accumulated hours will be displayed. Custom low power circuitry and high quality lithium battery eliminate the need for external power.

Package includes: Hour meter/tachometer, Sealed pickup sensor, and Ultra-Tiny pickup magnet.

GDI also offers a wide range of AC, DC and Inductive inputs in a variety of bezel configurations and functionality, including tachometers.

Hour Meter
- Records & displays to: 9,999.9 hrs then rolls over to log whole hours to 99,999 hours
- Hour glass symbol flashes. On/off to indicate counting time.
- Resolution 0.1 hours
- Quartz accuracy: +/- 0.02% (over entire voltage & temperature range)
- Begins logging time after 7 second delay

Tachometer
- Minimum RPM: 250
- Maximum RPM: 7500
- Resolution: 10 RPM or 1% of measurement (whichever is less)

Shaft Diameter vs. RPM table:

Shaft Dia.		Max RPM
2" or less	[50.8]	7500
4"	[101.6]	3750
6"	[152.4]	2500
8"	[203.2]	1875
10"	[254.0]	1500

Service Alert Option (OEM qtys)
- Up to three (3) automatic Service alerts
- One time Breakin interval option for each alarm (1 to 999 hours)
- Examples of alerts:
  "CHG OIL"
  "LUBE"
  "CHG FILTER"
  "SVC AIR FILTER"
  "SVC DUE"

  **Many other standard and custom messages available

Sealed pickup sensor
- Stainless Steel sensor with M5 threads and two M5 nuts
- Measures only 0.98" [24.89] long x 0.195" [4.95] dia.
- Sensor is epoxy sealed
- Operates within ¼" [6.35] away from pickup magnet
- Standard product comes with 48" [1219.20] of 24awg 2 conductor wire

Ultra-Tiny pickup magnet
- Ultra light disk minimizes effect on balance of the mechanical load
- Extremely powerful at 30 MGOe
- Weighs only 0.23 grams, (0.0005lbs)
- Measures 0.198" [5.03] Dia. X 0.060" [1.52] Thick
- Long life (over 50 years+)

Model	Functions
N160-0200-0071	Hour meter to 99,999 hours, 48" sensor wire
N160-0200-0018	Tachometer & Hour meter to 99,999 hours, 48" sensor wire
N160-0300-0018	Tachometer & Hour meter to 99,999 hours, 27" sensor wire

NOTE: OEMs may request other functions, displays, Flash Alerts, Button clearable Service Alerts, and bezels.

Power
- Self contained long life lithium batter
- Battery life: 12 yrs to 14 yrs average

Environmental Specifications
- Operating temperature: -40F to 158F (-40C to 70C)
- Meter Life: 14 years nominal at 25 C
- Shock: SAE J1378 55g's
- Vibration: SAE J1378 20g's
- Humidity: SAE J1378 95% RH
- 100% Epoxy encapsulated
- LCD: digit height 6mm, high UV rated for outdoor use, high temperature rated (-40C to 70C)
- Case Material: ABS, black, Acrylic window
- Weight 1 oz.
- Warranty: Two years for OEMs

Specifications may be subject to change without prior written notice

OEM Options
- Hour Meter function only
- Automatic on/off Service Alerts
- Button clear Service Alerts
- Custom Logos
- Custom wire lengths
- Panel mount meters with different bezels.
- Packaging: Carded, individual box, bulk in trays, poly-bagged or special kits.
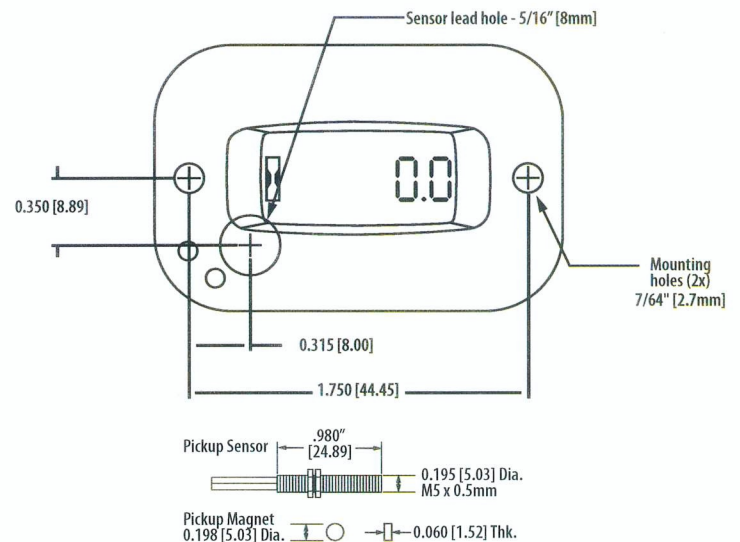
Installation:
Simply Epoxy the rare earth magnet to any Motor shaft (the tiny rare earth magnet is only ⅛" [3.18]diameter and is feather weight). Use an epoxy that bonds to metal. Mount the RPM sensor to a bracket so the nose of the sensor is within ¼" [6.35] from the magnet face.

NOTE1: This product is tested at the GDI factory during and after manufacturing. Therefore, there may be up to one tenth of an hour accumulated time on the meter.

NOTE2: Handling of the meter sensor wire during installation may cause the meter to show RPM or count time. This is because of static electricity and will stop after the sensor and wire are installed.

SFT Meter Back View

Drill 1/8" holes, or mount with double sided tape, or Velcro

Sensor lead hole - 5/16" [8mm]
0.350 [8.89]
Mounting holes (2x) 7/64" [2.7mm]
0.315 [8.00]
1.750 [44.45]

Pickup Sensor .980" [24.89]
0.195 [5.03] Dia.
M5 x 0.5mm
Pickup Magnet 0.198 [5.03] Dia.
0.060 [1.52] Thk.

Included:
GDI MotorTACH
RPM pickup Sensor
Motor shaft magnet disc

GDI Tach/Hour MotorTACH

Equipment Motor or rotating shaft

Pickup Sensor

Rare Earth Magnet