

DIGITAL PANEL METER

Operation Manual



It is important to read the Setup Guide before installing or commissioning this instrument as it contains important information relating to safety and EMC.

Please verify the panel cutout dimensions and mount according to instructions.

SAFETY CONSIDERATIONS

Unpacking and Inspection

Note

Your instrument has been carefully tested and inspected prior to shipment. Unpack the instrument and inspect for obvious shipping damage. Please do not attempt to install or operate the unit if damage is found.

This instrument is a panel mount device protected in accordance with Class I of EN 61010. Installation of this instrument should be done by Qualified personnel. In order to ensure safe operation, the following instructions should be followed.

This instrument has no power-on switch; it will be in operation as soon as power is connected. Do not make signal wiring changes or connections when power is applied to the instrument. Make signal connections before power is applied and, if reconnection is required, disconnect the power before such wiring is attempted.

Note

- Do not exceed voltage rating stated on the specifications.
- Always disconnect power before changing signal and power connections.
- Do not use this instrument on a work bench without its case for safety reasons.
- Do not operate this instrument in flammable or explosive atmospheres.
- Do not expose this instrument to rain or moisture.
- Whenever EMC is an issue, always use shielded cables.
- Instrument which will not be installed immediately should be stored in a clean, dry location.

WARNING: The use of this instrument in a manner other than specified may impair the protection of the instrument and subject the user to hazard.

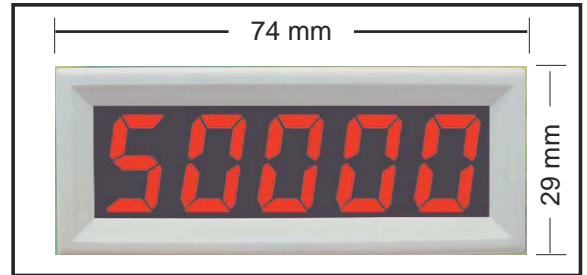
Digital Panel Frequency Speed Meter Tachometer

FEATURES:

- Ultra-bright 7-Segment LED display / 5-digit
- NPN, PNP Sensor of IR or Coder Switch/Pulse Input
- High input impedance
- Low cost high accuracy
- Connection cables (pigtailed) included
- Easy to install (DIY), snap-in/mount in panel
- Ideal for various applications

OPERATION SPECIFICATION:

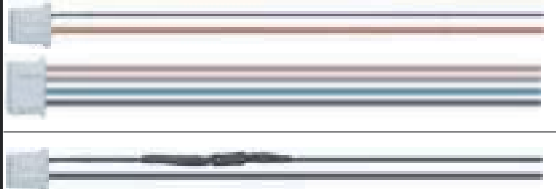
Power Source	5V~15V DC powered
Power Consumption	<100 mA
Maximum Count	50000
Display Range	20 - 50000 RPM
	0.5 - 499.9 Hz
Count Accuracy	+/-0.1%
Resolution	2-Digit
Signal	Sine Wave, Square Wave Delta or Triangular Wave Pulse
Input Impedance	=>33K Ohms
Input Sensitivity	3~100V or 280V
Over Range Display	-----
Operating Temperature	0 to +60° C (32 to 140° F)
Storage Temperature	-20 to +80° C (-4 to 176° F)
Humidity	0~95%RH
Temperature Coefficient	1ppm/°C (0 to 50° C)
Panel Cutout	71(W) × 26.5(H) mm
Dimensions	74(W) x 29(H) x 30(D) mm



Please check to make sure that the item you have received is exactly the SAME as shown in the picture above.

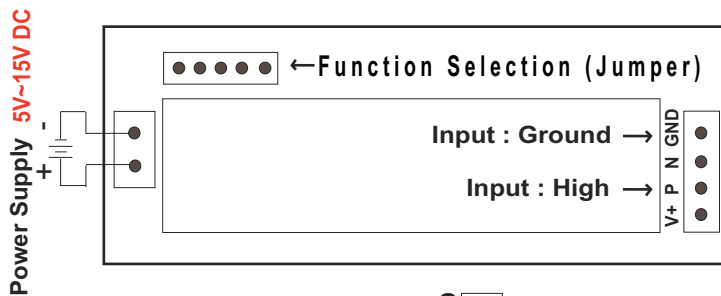


2x 2 & 1x 4-pin Pigtail Connectors included



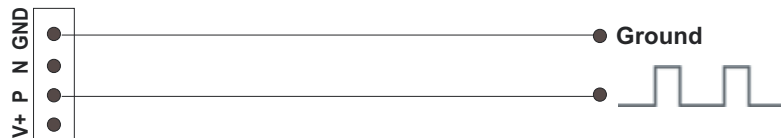
This 2-pin Pigtail Connector must be used for measuring the FREQUENCY of device which is powered from 100 to 280Vac only.

WIRING INFORMATION

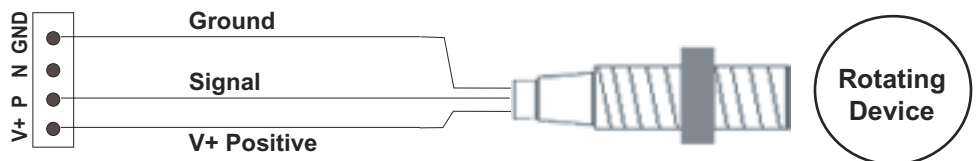


Function Selection (Jumper)			
Frequency	Tachometer Rate=1	Tachometer Rate=0.5	Tachometer Rate=0.1
RP=Input Pulse *60*Rate			UNIT:RPM

WIRING - 1 Pulse



WIRING - 2 PNP / SN04-N Sensor (Proximity/PhotoelectricSwitch)



* If there is not a Push Height Resistor built-in the sensor (NPN), an external resistor of about 5.1 Kohms must be added between POSITIVE and SIGNAL. For a PNP sensor, an external resistor of about 5.1 Kohms must be added between GROUND and SIGNAL.