

RPM meters (with selectable number of teeth) 1) only indicator, 2) with one relay output, 3) with two relay output.

RPM meters are available in four types:

- 1) Type **R101** without No of teeth select ability. (The No of teeth is factory set)
- 2) Type **RPM-1** with selectable No of teeth on shaft.
- 3) Type **RPM-1E, with one relay output**. Features: a) No of shaft's teeth selection & b) Predetermined RPM level selection triggers the relay output, to be activated when No of revolutions will exceed.
- 4) Type **RPM-2E, with two relay output**. Features a) No of shaft's teeth selection, b) First predetermined RPM level selection triggers relay output No 1. c) Second predetermined RPM level selection triggers relay output No 2.

General

Revolution counters of this series are capable of measuring revolutions starting **from 1 revolution up to 99.999** revolutions with typical resolution of 1 RPM.

Accuracy better than 0,5 % Full Scale.

Parameters adjustable from 1 up to 59.999 units.

Input signal is derived from sensor NPN type (proximity or photocell sensor) or any input signal of +12 V.

Auxiliary power supply +12 VDC 100 mA, for sensor supply.

In the case where three consecutives zeros are displayed  (as per side picture), then settings must be re-programmed. To erase this situation press ENTER and re-program parameters. If after this re-adjustment, instrument display, still shows the three consecutive zero's, then instrument should be thoroughly checked by an authorized SERVICE Center.

Technical Specifications

- Power supply: 230 or 115 VAC. After request.
- Accuracy 0,5 % ± 1 digit
- Connection. TAB 6,3 mm.
- Relay 250 VAC 30 A Resistive Load.

- Relay 250 VAC 5 A Resistive Load.
- Maximum power consumption: 3 Watt.
- Operating temperature: -10 - 60 °C.
- Storage temperature: -20 - +80°C.

—**ATTENTION:** It is necessary to prevent electrostatic discharges at the side ventilation openings. Also prevent insertion of pointed elements.

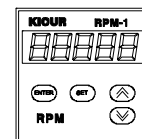
Programming the instrument

By pressing button **ENTER** screen displays **1** at the digit of thousand with the rest digits dimmed.

This is programming parameter No 1. Pressing button **v** (down), parameter No 2 (RPM-1E model) is displayed.

By pressing once again **v** parameter 3 (RPM-2E model) is displayed. These are the corresponding parameters of No of teeth, the first SET POINT & the second SET POINT respectively.

Press button ^ (up) consecutively to return back to programming parameter no 2 & no 1.



Whichever parameters 1, 2 or 3 are displayed, and if button SET is pressed, the value of the parameter is displayed, with the digit of units flashing. By pressing the up or down buttons only the digit of units is changed from 0 to 9. By pressing SET the second digit of tens is flashing and pressing up and down buttons only this number is changed from 0 to 9. In the same manner the other digits can be set. By pressing ENTER the number of parameter is displayed. By pressing again the ENTER button the programming is finished and No of revolutions is displayed.

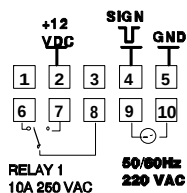
Schematically the above description of programming is showed as follows

Display		Display		Display	
01023		01000		00001	    Increases
RPM Indication		First parameter selected		Number of teeth	Each time button is pressed, digit changes by one step
		   	By pressing button SET is shifted the digit that flashing and can be adjusted.		
		02000		03001	    Increases
		Second parameter selected		First parameter relay	Each time button is pressed, digit changes by one step
		   	By pressing button SET is shifted the digit that flashing and can be adjusted.		
		03000		02001	    Increases
		Third parameter selected		Second relay parameter	Each time button is pressed, digit changes by one step

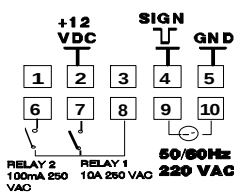
The above configuration with three parameters is available at model RPM-2E. At model RPM-1E is missing parameter No 3. At model RPM-1 are missing parameters No 2 & No 3. At model R101 there aren't parameters and the No of teeth are fixed.

Connection Diagram

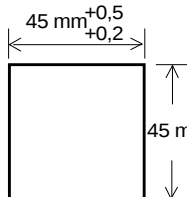
Connections (RPM-1E)



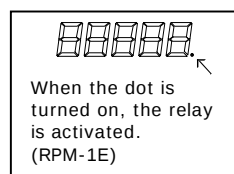
Connections (RPM-2E)



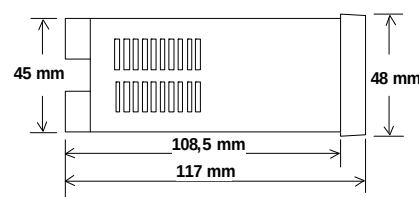
Cut off Dimensions



Activated Relay



External Dimensions



- Guarantee of good operation: Two (2) years.
- Guarantee terms.** The guarantee is valid if the operating instructions are followed.
- The **repairing** and the **service** of the instrument must be done by an authorized technician.
- The guarantee covers only the repairing or the replacement of the instrument.