



Electronic Digital Tachometer 4 Decade with optional Alarm/Trip

RM48
RM48-S1

- 4 Digit LED Display
- 48 x 48 mm DIN standard Housing
- 115/230VAC or 12-28VDC supply
- 12VDC output for proximity sensors etc
- Range 6 - 9999 rpm (ppm)
- Crystal controlled accuracy
- NPN & PNP type inputs.
- 11 Pin plug in base
- Panel or Chassis mounting
- Programmable Alarm/Trip point (RM48-S1)
- 5 amp relay output (RM48-S1)



DESCRIPTION

These electronic tachometers measure shaft speed, linear rate and flowrate and display directly in pulses per minute. They will accept electronic input signals from proximity switches and shaft encoders or other devices with PNP or NPN type outputs.

The RM48-S1 has the addition of an alarm/trip setpoint that is set using the front panel touch buttons. The alarm point once set is stored in non-volatile memory in the absence of power. The alarm can be either over or under speed and a 5A changeover relay output is provided to control external devices.

The RM48 series of tachometers are housed in a DIN standard 48 x 48 mm panel mount housing and has a standard 11 pin plug in base. A choice of power supply inputs is available, either 115/230 VAC or 12—28 VDC

Both instrument are available with a factory programmed scaling factor to enable direct reading when the pulses are not generated at one pulse per rev. Please consult sales to discuss your application

Modes of Operation

Measurement: The instrument displays the rate of the input pulses directly in pulses per minute. The display is updated approximately every 0.7 seconds or the interval between pulses, whichever is the longest. It will measure down to 6 ppm, below this speed the display resets to zero.

Overspeed Alarm: The output relay is de-energised when the displayed rate is less than the setpoint and energised when it equals or exceeds the set point.

Underspeed Alarm: The output relay is energised when the displayed rate is less than the setpoint and de-energised when it equals or exceeds the set point.

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Options

Factory set Scaling Factor: If the mechanics of your application make it difficult to get one pulse per revolution, unit length or unit flow then these devices can be factory set with a suitable scaling factor such as divide by 6.105. This will enable the readings to be directly in engineering units. Please consult Sales for more details.

SPECIFICATION

Measurement Range:	6 to 9999 pulses per minute
Accuracy:	+ or - 1 digit
Display update time:	0.7 seconds or time between pulses if longer
Over-range indication:	Display shows ' 8 - - - '
Display:	7 Segment LED 7.62 mm high
Timebase:	8 Mhz crystal
Inputs:	Pulse, NPN/PNP select, Over/Under speed (RM48-S1 only)
Input Requirements:	DC voltage from 3 to 30 volts pulses
Minimum pulse width:	5 milliseconds
Supply:	115/240 VAC or 12 - 30 VDC
Power Output :	12 volt DC output @ 20 mA for powering sensors etc.
Relay:	changeover contacts, 5 amp (resistive) at 250 VAC/30VDC
Power Consumption:	3VA or 250 mA
Environment:	Temperature- -10 to +60 degree Celsius relative humidity- 10% to 90% non-condensing
Housing:	Plastic moulding
Dimensions:	48 x 48 x 140 mm (135 behind panel including terminals)
Panel Cut-out:	45 x 45 mm
Connections:	11 pin plug in base
Order code:	{type}-{voltage if DC}

i.e. RM48, RM48-S1-DC

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