

**Item # 5330-1000 Model 53 Electronic LCD Tachometer**



**Model 53 Electronic LCD Tachometer**

The Model 53 Tachometers are self-powered by an internal lithium battery. They provide a low cost solution to accurately measure speed or production rates for a number of manufacturing and process applications. A wide selection of inputs, dry contact closure, 3-30VDC or 20-250VAC/VDC, make the Model 53 adaptable to most applications. When used with the appropriate sensor, the unit can display units per minute, length per minute or revolutions per minute. The maximum input rate is 10000 counts per minute.

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**Specifications**

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<b>Model No.</b>	53
<b>Mounting</b>	Panel
<b>Reset Type</b>	Remote
<b>Termination</b>	Terminal block
<b>Display</b>	4 LCD figures, 0.32 inch (8mm) high
<b>Display Height</b>	0.32 Inch
<b>Display Height</b>	8 mm
<b>No. of Digits</b>	4
<b>Input Voltage</b>	3-30 VDC
<b>Power Source</b>	Self-powered (internal lithium battery)
<b>Battery Life</b>	20 years (approx.)
<b>Operating Temperature</b>	-4 to +140 °F
<b>Operating Temperature</b>	-20 to +60 °C
<b>Storage Temperature</b>	-40 to +165 °F
<b>Storage Temperature</b>	-40 to +75 °C
<b>Color</b>	Tan
<b>Speed/RPM</b>	10000
<b>Weight</b>	2 oz
<b>Weight</b>	57 gm
<b>Approvals</b>	UL Recognized, CSA Certified, CE Compliant
<b>Accuracy</b>	Typically within 1% above 700Hz

<b>Dielectric</b>	1000VAC 50/60Hz for 1 minute
<b>Shock</b>	Operating: 10G; Non-Operating: 30G
<b>Vibration</b>	Operating: 10 to 55Hz, 0.01 inch (0.25mm) double amplitude; Non-Operating: 10 to 55Hz, 0.03 inch (0.75mm) double amplitude
<b>Humidity</b>	0 to 95% RH, non-condensing
<b>Stock Availability</b>	No



**Description**

The Model 53 Tachometers are self-powered by an internal lithium battery. They provide a low cost solution to accurately measure speed or production rates for a number of manufacturing and process applications. A wide selection of inputs, dry contact closure, 3-30VDC or 20-250VAC/VDC, make the Model 53 adaptable to most applications. When used with the appropriate sensor, the unit can display units per minute, length per minute or revolutions per minute. The maximum input rate is 10,000 counts per minute.

**Features**

- Lithium battery
- Choice of non-reset or remote reset
- Switch (no-voltage), 3-30VDC, 20-250VAC/VDC

**Options**

- Termination
- Case color
- Private labeling
- Mounting adapter plates
- 5003-001S - gasket

**Specifications**

**Figures:** 4 LCD figures, 0.32" [8mm] high  
**Reset:** Remote, manual, or non-reset  
**Speed:** 10,000 counts/minute  
**Inputs:** Switch (no-voltage), 3-30VDC, 20-250VAC/VDC  
 VDC  
**Power:** Self-powered (internal lithium battery)  
**Mounting:** Panel  
**Terminations:** Terminal block, or connector -w/ 8" [200mm] wire leads  
**Battery Life:** ~20years  
**Temperature:**  
**Operating:** -4°F to +140°F [-20°C to +60°C]

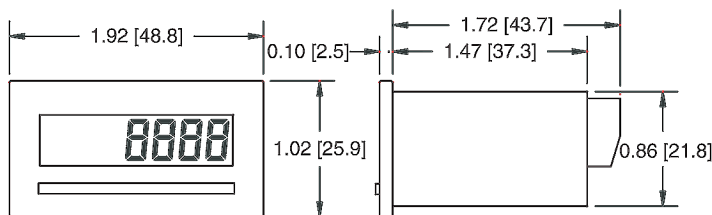
**Humidity:** 0 to 95% RH, non-condensing  
**Vibration:**  
**Operating:** 10 to 55Hz, 0.01" [0.25mm] double amplitude  
**Non-Operating:** 10 to 55Hz, 0.03" [0.75mm] double amplitude  
**Shock:**  
**Operating:** 10G  
**Non-Operating:** 30G  
**Dielectric:** 1000VAC 50/60Hz for 1 minute  
**Accuracy:** Typically within 1% above 700Hz  
**Weight:** 2 oz. [57g]  
**Approvals:** UL Recognized, CSA Certified, CE Compliant

**Models**

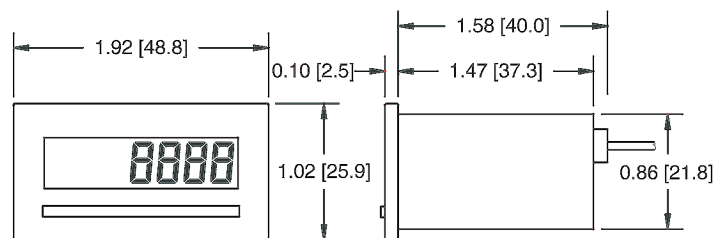
Models	Reset			Input			Speed/RPM		Terminations		Color	
	remote	none	manual	switch	3-30VDC	20-250VAC/VDC	10,000	2500	term. block	8" wire leads	Tan	Black
5330-0000	X			X			X		X		X	
5330-0001	X			X			X		X			X
5330-1000	X				X		X		X		X	
5330-1001	X				X		X		X			X
5330-2000	X					X		X	X		X	
5330-2001	X					X		X	X			X
5330-2200		X				X		X	X		X	
5330-2201		X				X		X	X			X

**Dimensions**

**TERMINAL BLOCK**



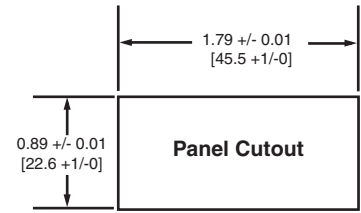
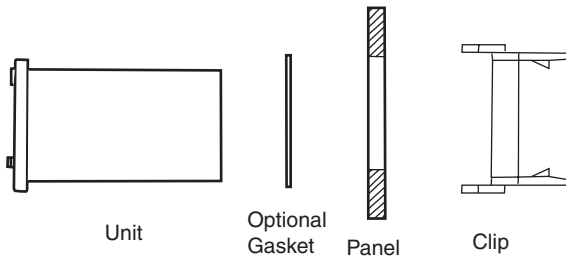
**WIRE LEADS**





Operating Instructions

MOUNTING:

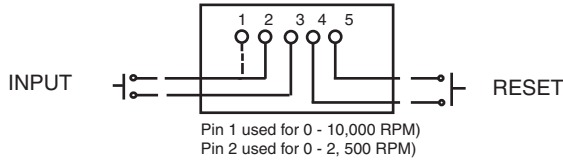


The mounting clip accommodates panel thicknesses up to 1/4" [6.4mm].

Panel adapter plates are available in flush and 2 hole mount to fit various panel cutouts. Consult the factory for availability.

WIRING:

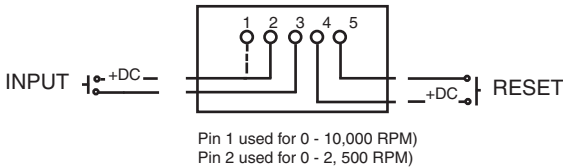
SWITCH (non-voltage)



Color code for the 8" [203mm] lead wires (24AWG) are:

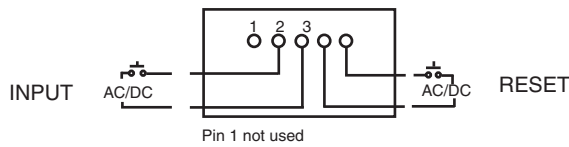
- 1 - Yellow
- 2 - Blue
- 3 - Black
- 4 - Violet
- 5 - Gray

3 - 30 VDC



Terminal block will accept wire sizes from 14 to 24AWG.

20 - 250VAC/VDC



3 - 30VDC units are protected for transient voltages up to 50 volts with pulse widths of up to 1 second at a 1% duty cycle (including reverse polarity).

The operating AC frequency range is 40 to 400Hertz.

NOTES:

All resettable hour meters can be reset by a pulse with a minimum duration of 6 milliseconds.

SPECIAL WIRING OPTION

There is an internal connection between pin 3 and pin 5, a single wire can be used by connecting it to either pin 3 or pin 5. This option **does not** apply for units with input of 20 - 250VAC/VDC or manual reset enable.

OPTIONAL INPUTS:

Optional control circuitry (such as transistors) may be used as inputs provided that such circuitry provides the required parameters of the model used.

Applications

Motor/pulley Speed

