



## Tachometer Model C.A 1727

Cat. #1748.30

**No-contact measurement, modulated infrared beam, mechanical adapter (converts rotation speed into pulses), measures to 100,000 rpm, software**

Provides multiple functions and automatic routines for data acquisition and storage including measurement of rotational speed, linear speed, count, frequency, and period with measurements up to 100,000 rpm. Software included.

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Rotational Speed Function	
Range	(60 to 100,000) RPM
Resolution	(0.0006 to 6) RPM depending on range
Accuracy	$1 \times 10^{-4}$ of reading $\pm 6$ counts
Linear Speed Function	
Range	Range: (0.1 to 10,000) m / min
Resolution	(0.0006 to 6) m / min or ft / min depending on range
Accuracy	$1 \times 10^{-4}$ of reading $\pm 1$ increment
Frequency Function	
Range	Range: (0.1 to 10,000) Hz
Resolution	(0.0004 to 0.4) Hz depending on range
Accuracy	$4 \times 10^{-5}$ of reading $\pm 4$ counts
Period Function	
Range	(0.1 to 10,000) ms
Resolution	(0.0003 to 0.3) ms depending on range
Accuracy	$1 \times 10^{-4}$ of reading $\pm 5$ counts
Duty Cycle Function	
Range	(10 to 10,000) %
Resolution	(0.1 to 1) % depending on range

For more details, download the datasheet or user manual at [www.aemc.com](http://www.aemc.com)

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<b>Accuracy</b>	0.1 % of scale (0.2 to 50) Hz 0.2 % of scale (50 to 125) Hz 1 % of scale otherwise
<b>Count Function</b>	
<b>Range</b>	0 to 99,999 events
<b>Accuracy</b>	± 1 event
<b>Optical Sensor</b>	
<b>Measuring Distance</b>	(0.4 to 19.7) in (1 to 50) cm
<b>Measurement Angle</b>	±15 ° in relation to the perpendicular of reflective surface
<b>General Features</b>	
<b>Memory</b>	4000 points
<b>Communication \ PC</b>	via USB \ TachoGraph software (included)
<b>Accessories (Not Included)</b>	Mechanical adapter, calibrated wheel, conical end fitting, cylindrical end fitting.
<b>Power Supply</b>	9 V alkaline battery (included)
<b>Battery Life</b>	250 x 5 min measurements with optical sensor; 600 x 5 min measurements with external sensor
<b>Data Storage</b>	4000 measurements
<b>Operation Temperature</b>	(32 to 131) °F (0 to 55) °C 90 % RH
<b>Storage Temperature</b>	(-4 to 158) °F (-20 to 70) °C 95 % RH
<b>Dimensions</b>	(8.5 x 2.83 x 1.85) in (216 x 72 x 47) mm
<b>Weight</b>	8.8 oz (250 g)
<b>Ingress Protection</b>	IP 51
<b>Safety Compliance</b>	IEC 61010-1



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