# **ELECTRICAL TEST TOOLS**

**TACHOMETERS** 

## C.A 1725 & C.A 1727

Simple to use and offers numerous measurement capabilities with or without contact

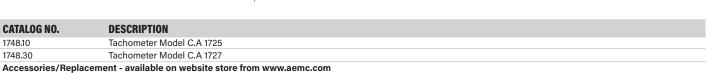


MODELS	C.A 1725 & C.A 1727
<b>MEASUREMENTS</b>	
Rotational Speed Function	Range: 6 to 100,000rpm
	Resolution: 0.0006 to 6rpm depending on range
	Accuracy: ±1x10 <sup>-4</sup> of Reading ±6 counts
Linear Speed Function	Range: 0.1 to 10,000m/min or ft/min
	Resolution: 0.0006 to 6m/min depending on range
	Accuracy: ±1x10 <sup>-4</sup> of Reading ±1 increment
Frequency Function	Range: 0.1 to 10,000Hz
	Resolution: 0.0004 to 0.4Hz depending on range
	Accuracy: ±4x10 <sup>-5</sup> of Reading ±4 counts
Period Function	Range: 0.1 to 10,000ms
	Resolution: 0.0003 to 0.3ms depending on range
	Accuracy: ±1x10 <sup>-4</sup> of Reading ±5 counts
Duty Cycle Function	Range: 10 to 10,000%
	Resolution: 0.1 to 1% depending on range
	Accuracy: ±0.1% of scale from 0.2 to 50Hz
	$\pm 0.2\%$ of scale from 50 to 125Hz / $\pm 1\%$ of scale otherwise
Count function	Range: 0 to 99,999 events; Accuracy: ±1 event (Model C.A 1727)
GENERAL	
Power Source	9V battery Alkaline (included)
Battery life	250 x 5 min measurements with optical sensor;
	600 x 5 min measurements with external sensor
Data Storage	4000 measurements (Model C.A 1727)
Dimensions	8.5 x 2.83 x 1.85" (216 x 72 x 47mm)
Weight	8.8oz (250g)
Weatherproofing	IP51
Environment	Storage: -4 to +158°F (-20 to +70°C) 95% RH;
	Operation: 32 to 131°F (0 to 55°C) 90% RH
SENSOR	
Optical	Reflective area: 10 to 90% of the target area.
	Measurement distance: 0.4 x 19.7" (1 to 50cm). The maximum distance is given for a reflective adhesive strip
	with a minimum area of 10cm <sup>2</sup> .
	Measurement angle: $\pm 15^{\circ}$ in relation to the perpendicular of the reflective surface.
Mechanical	Mechanical adapter: End-fittings: elastomer with a durometer hardness of 80
	Pressure on moving part: between 2 and 40N; maximum speed: 10,000rpm
	Service life: approx. 1000 hours at 3000rpm with a pressure of 20N
	Conical end-fitting accessory: Minimum diameter of measurement shaft: 0.2" (5mm)
	Cylindrical end-fitting accessory: Speed measurements on shafts with a diameter greater than 0.2" (5mm)
	or flat-ended shafts
	End-fitting accessory with wheel; Wheel diameter: 1.19" (30.183mm);
	Wheel development: 3.94" ±0.004" (10cm ±0.1mm)
	Wheel development, 5.54 ±0.004 (local ±0.11111)

## **PRODUCT INCLUDES**

Mechanical accessories kit

Hard case, FRB F connector, 9V battery, set of fifteen reflective strips, quick start guide and user manual. The Model C.A 1727 also includes a USB cable and TachoGraph software.









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## **FEATURES**

- Measurements up to 100,000 RPM
- Multiple functions and automatic routines for data acquisition and storage: measurement of rotational speed, linear speed, count, frequency and period
- Extensive programming possibilities
- Digital display with analog bargraph
- USB interface for processing results on a PC (Model C.A 1727)
- Includes TachoGraph software on CD-ROM (Model C.A 1727) download memory only
- Stores up to 4000 measurements results (Model C.A 1727)

#### **ACCESSORIES**

### **MECHANICAL ACCESSORIES KIT**

Catalog #1749.02

Mechanical adapter, calibrated wheel, conical end fitting and cylindrical end fitting





1749.02