

### C.A 1725 & C.A 1727

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



### SPECIFICATIONS

MODELS	C.A 1725 & C.A 1727
<b>MEASUREMENTS</b>	
<b>Rotational Speed Function</b>	Range: 6 to 100,000rpm Resolution: 0.0006 to 6rpm depending on range Accuracy: $\pm 1 \times 10^{-4}$ of Reading $\pm 6$ counts
<b>Linear Speed Function</b>	Range: 0.1 to 10,000m/min or ft/min Resolution: 0.0006 to 6m/min depending on range Accuracy: $\pm 1 \times 10^{-4}$ of Reading $\pm 1$ increment
<b>Frequency Function</b>	Range: 0.1 to 10,000Hz Resolution: 0.0004 to 0.4Hz depending on range Accuracy: $\pm 4 \times 10^{-5}$ of Reading $\pm 4$ counts
<b>Period Function</b>	Range: 0.1 to 10,000ms Resolution: 0.0003 to 0.3ms depending on range Accuracy: $\pm 1 \times 10^{-4}$ of Reading $\pm 5$ counts
<b>Duty Cycle Function</b>	Range: 10 to 10,000% Resolution: 0.1 to 1% depending on range Accuracy: $\pm 0.1\%$ of scale from 0.2 to 50Hz $\pm 0.2\%$ of scale from 50 to 125Hz / $\pm 1\%$ of scale otherwise
<b>Count function</b>	Range: 0 to 99,999 events; Accuracy: $\pm 1$ event (Model C.A 1727)
<b>GENERAL</b>	
<b>Power Source</b>	9V battery Alkaline (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 (Model C.A 1727)
<b>Dimensions</b>	8.5 x 2.83 x 1.85" (216 x 72 x 47mm)
<b>Weight</b>	8.8oz (250g)
<b>Weatherproofing Environment</b>	IP51 Storage: -4 to +158°F (-20 to +70°C) 95% RH; Operation: 32 to 131°F (0 to 55°C) 90% RH
<b>SENSOR</b>	
<b>Optical</b>	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.
<b>Mechanical</b>	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" $\pm 0.004$ " (10cm $\pm 0.1$ mm)



### 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



### PRODUCT INCLUDES

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.

CATALOG NO.	DESCRIPTION
1748.10	Tachometer Model C.A 1725
1748.30	Tachometer Model C.A 1727
<b>Accessories/Replacement - available on website store from <a href="http://www.aemc.com">www.aemc.com</a></b>	
1749.02	Mechanical accessories kit