



## Models CA1725 & CA1727

**Simple to use and offers numerous measurement possibilities with or without contact**

### ► SPECIFICATIONS

MODELS	CA1725 & CA1727
<b>MEASUREMENTS</b>	
<b>Rotational Speed Function</b>	Range: 6 to 100,000rpm Resolution: 0.0006 to 6rpm depending on range Accuracy: $1 \times 10^{-4}$ 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: $1 \times 10^{-4}$ 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: $4 \times 10^{-5}$ 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: $1 \times 10^{-4}$ of Reading $\pm 5$ counts
<b>Duty Cycle Function</b>	Range: 10 to 10,000% Resolution: 0.1 to 1% depending on range Accuracy: 0.1% of scale from 0.2 to 50Hz 0.2% of scale from 50 to 125Hz / 1% of scale otherwise
<b>Count function</b>	Range: 0 to 99,999 events; Accuracy: $\pm 1$ event (Model CA1727)
<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 CA1727)
<b>Dimensions</b>	8.5 X 2.83" (216 x 72 x 47mm)
<b>Weight</b>	8.8 oz (250g)
<b>Weatherproofing</b>	IP 51
<b>Environment</b>	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: 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: 5mm Cylindrical end-fitting accessory: Speed measurements on shafts with a diameter greater than 5mm or flat-ended shafts  End-fitting accessory with wheel; Wheel diameter: 30.183mm; Wheel development: 10cm $\pm$ 0.1mm

### ► FEATURES

- Measurements up to 100,000rpm
- 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 CA1727)
- Includes TachoGraph software on CD-ROM (Model CA1727) download memory only
- Stores up to 4000 measurements results

### ► PRODUCT INCLUDES

Hard case, FRB F connector, 9V battery, a set of 15 reflective strips, user manual, USB cable & TachoGraph software on CD-ROM (CA1727 only), and quick start-up guide.



CATALOG NO.	DESCRIPTION
1748.10	Tachometer Model CA1725
1748.30	Tachometer Model CA1727
1749.02	Mechanical accessories kit