



Models CA1725 & CA1727

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

SPECIFICATIONS

MODELS	CA1725 & CA1727
MEASUREMENTS	
Rotational Speed Function	Range: 6 to 100,000rpm Resolution: 0.0006 to 6rpm depending on range Accuracy: $\pm 1 \times 10^{-4}$ 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: $\pm 1 \times 10^{-4}$ of Reading ± 1 increment
Frequency Function	Range: 0.1 to 10,000Hz Resolution: 0.0004 to 0.4Hz depending on range Accuracy: $\pm 4 \times 10^{-5}$ of Reading ± 4 counts
Period Function	Range: 0.1 to 10,000ms Resolution: 0.0003 to 0.3ms depending on range Accuracy: $\pm 1 \times 10^{-4}$ of Reading ± 5 counts
Duty Cycle Function	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
Count function	Range: 0 to 99,999 events; Accuracy: ± 1 event (Model CA1727)
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 CA1727)
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 ² . 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 ± 0.1 mm)

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 (Model CA1727)



PRODUCT INCLUDES

Hard case, FRB F connector, 9V battery, set of fifteen reflective strips, quick start guide and user manual. The Model CA1727 also includes a USB cable and TachoGraph software on CD-ROM.

ACCESSORY

Mechanical Accessories Kit

Catalog #1749.02

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

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

