



## MODELS CA 1725 & CA 1727

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



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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 CA 1727)
- Includes TachoGraph software on CD-ROM (Model CA 1727) download memory only
- Stores up to 4000 measurements results (Model CA 1727)

### PRODUCT INCLUDES

Hard case, FRB F connector, 9 V battery, set of (15) reflective strips, quick start guide and user manual. CA 1727 also includes a USB cable and TachoGraph software.



| MODELS                                   | CA 1725  | CA 1727   |
|--|--|---|
| <b>MEASUREMENTS</b>                      |  |   |
| <b>Rotational Speed Function</b>         | Range: (6 to 100,000) RPM<br>Resolution: (0.0006 to 6) RPM depending on range  |   |
| <b>Linear Speed Function</b>             | Range: (0.1 to 10,000) m / min or ft / min<br>Resolution: (0.0006 to 6) m / min or ft / min depending on range             |   |
| <b>Frequency Function</b>                | Range: (0.1 to 10,000) Hz<br>Resolution: (0.0004 to 0.4) Hz depending on range   |   |
| <b>Period Function</b>                   | Range: (0.1 to 10,000) ms<br>Resolution: (0.0003 to 0.3) ms depending on range   |   |
| <b>Duty Cycle Function</b>               | Range: (10 to 10,000) %<br>Resolution: (0.1 to 1) % depending on range   |   |
| <b>Count Function</b>                    | -  | Range: 0 to 99,999 events;<br>Accuracy: ± 1 event |
| <b>GENERAL</b>                           |  |   |
| <b>Power Supply</b>                      | 9 V Alkaline battery (included)  |   |
| <b>Battery Life</b>                      | 250 x 5 min measurements with optical sensor;<br>600 x 5 min measurements with external sensor                             |   |
| <b>Data Storage</b>                      | -  | 4000 measurements                                 |
| <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>Environment</b>                       | Storage: (-4 to 158) °F (-20 to 70) °C 95 % RH<br>Operation: (32 to 131) °F (0 to 55) °C 90 % RH                           |   |
| <b>Communication / PC Software</b>       | -  | Through USB / TachoGraph software included        |
| <b>OPTICAL SENSOR</b>                    |  |   |
| <b>Reflective Area</b>                   | (10 to 90) % of the target area  |   |
| <b>Measurement Distance</b>              | (0.4 x 19.7) in (1 to 50) cm<br>The maximum distance is given for a reflective adhesive strip with a minimum area of 10 cm |   |
| <b>Measurement Angle</b>                 | ± 15 ° in relation to the perpendicular of the reflective surface  |   |
| <b>MECHANICAL</b>                        |  |   |
| <b>Adapter</b>                           | End-fittings: elastomer with a durometer hardness of 80  |   |
| <b>Pressure on Moving Part</b>           | Between 2 and 40 N; maximum speed: 10,000 RPM  |   |
| <b>Service Life</b>                      | Approximately 1000 h at 3000 RPM with a pressure of 20 N   |   |
| <b>Conical End-fitting Accessory</b>     | Minimum diameter of measurement shaft: 0.2 in (5 mm)   |   |
| <b>Cylindrical End-fitting Accessory</b> | Speed measurements on shafts with a diameter greater than 0.2 in (5 mm) or flat-ended shafts                               |   |
| <b>End-fitting Accessory with Wheel</b>  | Wheel diameter: 1.19 in (30 mm);<br>Wheel development: 3.94 in ± 0.004 in (99 mm ± 0.1 mm)                                 |   |

Consult factory for NIST Calibration prices.

### ACCESSORIES

#### MECHANICAL ACCESSORIES KIT CAT. #1749.02

Mechanical adapter, calibrated wheel, conical and cylindrical end fitting



| CAT. #  | DESCRIPTION              |
|---------|--------------------------|
| 1748.10 | Tachometer Model CA 1725 |
| 1748.30 | Tachometer Model CA 1727 |