



## rpm measuring instrument

**testo 470** - For non-contact and mechanical measurement



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Easy one-hand operation

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Measurement of rpm, speeds and lengths

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Storage of mean, max. and min. values as well as the last measurement value

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Measurement distance up to 600 mm (optical measurement)

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Battery check "Low Batt"

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Robust design thanks to SoftCase (protective case)

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The rpm measuring instrument testo 470, which can be operated with one hand, offers an optimum combination of optical and mechanical rpm measurement. By simply attaching an adapter for a probe tip or a speed disc, the optical measurement becomes a mechanical one. This allows speeds and lengths to be measured additionally. For optical measurements, simply attach a reflective marker

(optional) to the measurement object, point the visible measurement spot at the reflective marker, and measure. The distance to the measurement object is up to 600 mm. The testo 470 stores mean, min. and max. values as well as the last measurement value. The SoftCase included in delivery protects the instrument from impact, ensuring an especially long working life.

## Technical data / Accessories

### testo 470

testo 470 rpm measuring instrument with SoftCase in transport case incl. probe tip, 0.1 m and 6" wheel, reflectors and batteries

Part no. 0563 0470




#### General technical data

|                       |                              |
|-----------------------|------------------------------|
| Operating temperature | 0 to +50 °C                  |
| Storage temperature   | -20 to +70 °C                |
| Battery type          | 2 AA batteries               |
| Battery life          | 40 h                         |
| Display               | 5-figure LCD display, 1-line |
| Dimensions            | 175 x 60 x 28 mm             |
| Weight                | 190 g                        |
| Warranty              | 2 years                      |

#### Sensor types

|                      | Optically with mod. light beam   |
|----------------------|--|
| Measuring range      | +1 to +99999 rpm   |
| Accuracy<br>±1 digit | ±0.02% of m.v.   |
| Resolution           | 0.01 rpm (+1 to +99.99 rpm)<br>0.1 rpm (+100 to +999.9 rpm)<br>1 rpm (+1000 to +99999 rpm) |
|                      | Mechanical   |
| Measuring range      | +0.1 to +19999 rpm   |
| Accuracy<br>±1 digit | ±0.02% of m.v.   |

|  | 0.1 m      | 6"         | 12"        |
|---|------------|------------|------------|
| <b>m/min</b>  | 0.10-1999  | 0.10-1524  | 0.40-609.6 |
| <b>ft/min</b>   | 0.40-6550  | 0.40-5000  | 0.40-2000  |
| <b>in/min</b>   | 4.00-78700 | 4.00-60000 | 4.00-24000 |
| <b>m/sec</b>  | 0.10-33.30 | 0.10-25.40 | 0.10-10.16 |
| <b>ft/sec</b>   | 0.10-109   | 0.10-83.33 | 0.10-33.33 |
| <b>m</b>  | 0.00-99999 | 0.00-99999 | 0.00-99999 |
| <b>ft</b>   | 0.00-99999 | 0.00-99999 | 0.00-99999 |
| <b>in</b>   | 0.00-99999 | 0.00-99999 | 0.00-99999 |

Units rpm, m/min, ft/min, in/min, m, ft, in

The mechanical tolerance for measurements with a wheel is 0.2 %, the measurement accuracy is dependent on handling, e.g application pressure, angle etc.

#### Accessories for measuring instrument

#### Part no.

|  |           |  |
|--|-----------|--|
| Reflectors, self-adhesive (1 pack = 5 off, each 150 mm long)   | 0554 0493 |  |
| Measuring wheel 12"  | 0554 4755 |  |
| Measuring wheel 6"   | 0554 4754 |  |
| Measuring wheel 0.1"   | 0554 4751 |  |
| Measurement tip  | 0554 4752 |  |
| Hollow cone  | 0554 4756 |  |
| ISO calibration certificate/rpm<br>optical and mechanical rpm measuring instruments; cal. points 500; 1000; 3000 rpm     | 0520 0012 |  |
| ISO calibration certificate/rpm<br>optical rpm measuring instruments; calibration points 10; 100; 1000; 10000; 99500 rpm | 0520 0022 |  |
| ISO calibration certificate/rpm<br>Calibration points freely selectable from 10 to 99500 rpm                             | 0520 0114 |  |
| DAkkS calibration certificate/rpm<br>Optical rpm probes, 3 points in instrument measurement range (1 to 99999 rpm)       | 0520 0422 |  |