

## LED hand stroboscope

**testo 477 – The measuring  
instrument for high revolutions**

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High measuring range: up to 300000 flashes per minute (fpm)

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Very high light intensity of up to 1500 Lux

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Long operating time thanks to battery life up to 5 h

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Ideal for tough applications thanks to impact protection and IP65

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Trigger input and output

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The testo 477 LED hand stroboscope is used when it is necessary to make fast-moving objects appear in slow motion. testo 477 visualizes rotation and vibration movements and allows measurement during continuing operation. The static image allows the inspection and qualitative evaluation of components moving at high frequencies.

Thanks to the trigger input and output, the testo 477 can be connected to external systems and controlled by an external sensor.

The impact protection on the testo 477 and the protection class IP65 additionally guarantee that the instrument can be used under tough conditions. The long battery life enables you to carry out measurements for up to five hours.

# Technical data / Accessories

## testo 477

testo 477 LED strobe for RPM measurement incl. transport case, trigger signal connector, battery and calibration protocol

Part no. 0563 4770



Sensor type LED

|                   |   |
|-------------------|---|
| Measuring range   | 30 to 300000 fpm                                |
| Accuracy ±1 digit | 0.02 %  |
| Resolution        | ±0.1 (30 to 999 fpm)<br>±1 (1000 to 300000 fpm) |

### General technical data

|                  |  |
|------------------|--|
| Protection class | IP65   |
| Display          | LCD, multiline   |
| Flash duration   | Can be adjusted  |
| Flash intensity  | 1500 Lux at 6000 FPM / 20 cm   |
| Flash colour     | Approx. 6500 K   |
| Service life     | NiMH rechargeable battery: Approx. 11 h at 6000 fpm<br>Batteries: approx. 5 h at 6000 fpm (3 x AA) |

### Trigger input

|                            |  |
|----------------------------|--|
| Principle                  | Optocoupler                                |
| Low level                  | < 1 V                                      |
| Level                      | 3 to 32 V (square wave voltage), NPN + PNP |
| Pulse duration             | 50 µs                                      |
| Reverse battery protection | Yes  |

### Trigger output

|                            |   |
|----------------------------|---|
| Principle                  | Short-circuit and surge-proof transistor output |
| Level                      | NPN, max. 32 V                                  |
| Pulse duration             | Can be adjusted                                 |
| Maximum current            | 50 mA   |
| Reverse battery protection | Yes   |

### Accessories

### Part no.

|  |           |  |
|--|-----------|--|
| ISO calibration certificate/rpm<br>optical and mechanical rpm measuring instruments; cal. points 500; 1000; 3000 rpm | 0520 0012 |  |
| DAkkS calibration certificate/rpm<br>Optical rpm probes, 3 points in instrument measurement range (1 to 99999 rpm)   | 0520 0422 |  |