

Tachometer

MODEL AT-6

- Provides fast and accurate rpm measurements of rotating objects without contact
- Laser targeting
- Provides Total measurements
- Built-in memory recalls maximum, minimum values as well as last value stored
- Highly visible 5-digit LCD with backlight
- Includes reflective tape, soft carrying case and batteries



Measuring Range: 2 to 99,999 rpm
 Accuracy: $\pm(0.05\% \text{ rdg.} + 1 \text{ dgt.})$
 Resolution: 0.1 rpm: 2 to 999.9 rpm; 1 rpm: >1000 rpm
 Sampling Time: 0.5 sec over 120 rpm
 Detection Distance: 50 to 500mm
 Power Supply: Single 9V battery
 Dimensions: 160 x 58 x 39mm
 Weight: 151g

AT-6 Photo Tachometer

Tachometer

MODEL K4010

- Automatically holds last reading for 5 minutes and recalls minimum and maximum readings
- Characters on the 5-digit display reverse direction depending on which measurement mode you are in
- Microcomputer LSI circuitry provides accuracy to 0.05% and permits readings to a resolution of 0.1 RPM in either photo or contact mode
- ABS plastic housing assures years of maintenance free performance
- Designed to fit comfortably in either hand
- Includes 3 contact adapters (2 cones, 1 funnel), surface speed wheel, reflective tape, batteries and hard carrying case



Photo Range: 5 to 99,999 rpm
 Contact Range: 0.5 to 20,000 rpm
 Surface Speed Range: 0.05 to 1,999.9 mpm (0.2 to 6,560 fpm)
 Resolution: 0.1 rpm \leq 999.9 rpm, 1 rpm > 1000 rpm;
 0.1 mpm \leq 99.99 mpm, 1 mpm > 100 mpm
 (0.1 fpm \leq 99.99 fpm, 1 fpm > 1000 fpm)
 Accuracy: $\pm(0.5\% + 1 \text{ digit})$
 Sampling Time: Photo: 1 sec. > 6 rpm;
 Contact: 1 sec. > 60 rpm
 Detecting Distance: 50 to 150 mm (2 to 6") typically;
 300 mm (12") max.
 Display: 5 digit LCD 10 mm high
 Time Base: Quartz Crystal
 System Control: Single chip micro computer LSI circuit
 Power Supply: (4) 1.5V "AA" batteries
 Dimensions: 8.5 x 2.6 x 1.5" (215 x 65 x 38 mm)
 Weight: 10.6 oz (300g)

K4010 Photo-Contact Tachometer
AS-35C Replacement Surface Speed Wheel
CONE Replacement Cone Adapter

Tachometer

MODEL ST-6236B

- Dual function unit with both contact and non-contact capabilities
- Supplied with adapters for mpm, rpm and surface speed measurements
- Non-contact function utilizes laser light beam for improved accuracy
- Recalls Max/Min and last values
- Large, easy to read display
- 0.05% accuracy
- Includes battery and carrying case



Photo Range: 5 to 99,999 rpm
 Contact Range: 5 to 19,999 rpm
 Surface Speed Range: 0.05 to 1,999 mpm
 Resolution: 0.1 rpm
 Accuracy: $\pm(0.05\% + 1 \text{ digit})$
 Sampling Rate: 1/second
 Display: 5-digit LCD
 Dimensions/Weight: 6.3 x 2.8 x 1.5"/7.9 oz

ST-6236B Photo-Contact Tachometer
ST-WHEEL Replacement Surface Speed Wheel
ST-CONE Replacement Cone Adapter
ST-FUNNEL Replacement Funnel Adapter
ST-SHAFT Replacement Shaft Extension

Tachometer

MODEL DT-1236L

- Photo tachometer and contact tachometer in one precision instrument
- Surface speed measurements in fpm or mpm
- Retains Min/Max and last reading for later recall
- Automatic reverse display direction depending on which measurement mode you are in
- Laser light for improved accuracy at a greater distance in photo mode
- Highly visible LCD readout
- Includes 3 contact adapters (2 cones, 1 funnel), surface speed wheel, reflective tape, batteries and hard carrying case



Range/Resolution:
 Photo: 10 to 99,999 rpm/0.1 rpm \leq 999.9 rpm,
 1 rpm > 1000 rpm;
 Contact: 0.5 to 19,999 rpm/0.1 rpm \leq 999.9 rpm,
 1 rpm > 1000 rpm;
 Surface Speed: 0.05 to 1,999.9 mpm
 (0.2 to 6560 fpm)/0.01mpm \leq 99.99 mpm,
 0.1 mpm > 100 mpm (0.1 fpm \leq 999.9 fpm,
 1 fpm > 1000 fpm)
 Accuracy: $\pm(0.05\% + 1 \text{ digit})$
 Sampling Rate: Photo: 1 sec. over 60 rpm;
 Contact: 1 sec. over 6 rpm
 Detection Distance: 50 to 2,000mm
 Laser: Class 2 red laser diode, 645nm wavelength
 Power Supply: 4 x 1.5V "AA" batteries
 Dimensions: 8.5 x 2.6 x 1.5" (215 x 65 x 38mm)
 Weight: 9.9 oz (280g) with batteries

DT-1236L Photo-Contact Tachometer

Stroboscope

MODEL K4020

- Simply aim and synchronize the strobe's flash rate (fpm) with the speed (rpm) of the object
- Direct reading of RPMs
- Exclusive one-chip micro-computer LSI circuit and quartz crystal control time-base assures accuracy of $\pm 1\%$
- 4-digit, 0.3" high LED display
- Duty cycles from 5 to 30 minutes (depending on RPM range)
- Tripod mountable AC operated with 6-foot power cord



Flash Range: 100 to 100,000 fpm (flashes per minute)
Resolution: 1 rpm/fpm
Accuracy: $\pm 1\%$: 100 to 5000 fpm; $\pm 0.05\%$: ≥ 5000 fpm
Sampling Rate: 1/second
Calibration: Crystal time base and microprocessor circuit, does not necessarily take any external calibration procedure
Power Supply: 110 VAC, 50/60 Hz
Dimensions: 8.3 x 4.8 x 4.8" (210 x 120 x 120mm)
Weight: 2.2 (1kg)

K4020	Stroboscope, 110VAC
K4020-BULB	Replacement Bulb
K4020-230V	Stroboscope, 230VAC

Stroboscope

MODEL K4030

- Freeze the motion and measure the speed of a rotating object, without contact
- Push button that doubles and one that divides in half the flashing and display rate with just one activation
- Coarse and Fine adjustment buttons to synchronize flash to exactly the right rate
- Duty cycles from 10 min to 2 hrs depending on rpm range
- Exclusive one-chip micro-computer LSI circuit and crystal control time-base
- External trigger input
- RS232 serial interface
- Xenon white flash tube has a flash duration of 60 to 1000 μ S



Flash Range: 10 to 10,500 rpm
Resolution: 0.1 rpm: 5 to 999.9 rpm; 1 rpm: 1,000 to 9,999 rpm;
10 rpm: $\geq 10,000$ rpm
Accuracy: $\pm(0.15\% \text{ rdg.} + 0.2 \text{ rpm}) < 1,000 \text{ rpm}$; $\pm(0.5\% \text{ rdg.} + 1 \text{ rpm})$:
1,000 to 3,300 rpm; $\pm 1\% \text{ f.s.}$: 3,301 to 10,500 rpm
Stability: 1 digit within 10 min.
External Trigger Input: 5 to 30 Vrms, 0.083 to 175 Hz
Power Supply: 110 VAC 15%, 50/60 Hz
Dimensions: 8.3 x 4.8 x 4.8" (210 x 120 x 120mm)
Weight: 2.2 lb. (1 kg)

K4030	Stroboscope, 110VAC
K4030-230V	Stroboscope, 230VAC
SW-U801-WIN	Software
UPCB-02	RS232 Cable
USB-01	USB Cable

Stroboscope

MODEL K4040

- Non-contact rpm measurement
- Highly visible, 0.4" high, 5-digit LCD readout gives accurate rpm readings over a wide measuring range
- Last value, max and min values can be stored in memory automatically and recalled at the touch of a button
- For motion analysis, simply locate the actual speed and then turn the dial slowly up or down; this will give a slow motion effect, allowing complete inspection
- Battery-operated
- Includes hard carrying case and batteries



Stroboscope Flash Range: 100 to 100,000 fpm/rpm
Resolution: 0.1 fpm/rpm: $< 1,000$ fpm/rpm;
1 fpm/rpm: $\geq 1,000$ fpm/rpm
Flash Tube: High efficiency orange LED lamp
Flash Duration: Approx. 60 to 1,000 msec
Tachometer Range: 5 to 99,999 rpm
Resolution: 0.1 rpm $< 1,000$ rpm; 1 rpm $\geq 1,000$ rpm
Detecting Distance: 50 to 150 mm (2 to 6"); typically 300mm (12") max. depending on ambient light
Display: 5-digit, 10mm (0.4") high LCD
Accuracy: $\pm(0.1\% + 2 \text{ digits})$
Sampling Time: 1 second (≥ 60 rpm)
Time Base: Quartz crystal
Power Supply: 4 x 1.5V "AA" batteries
Dimensions: 215 x 65 x 38 mm (8.5 x 2.6 x 1.5")
Weight: 300 g (10.6 oz)

K4040	Stroboscope
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Distance Meter

MODEL DM-01

- Ultrasonic distance meter with laser target pointer
- Measures in imperial or metric
- Start point selection
- Data store/recall
- Computes areas and volumes
- Five groups of values in memory
- Sums of lengths
- Auto/manual shut-off
- LCD display backlight
- Reading confirmation signal
- Includes soft carrying case and batteries



Measuring Range: 0.5 to 16m (1.64 to 52.48 ft.)
Accuracy: $\pm 1\%$ of reading + 1 digit
Operating Conditions: $25 \pm 5^\circ\text{C}$, 45% ~ 90% RH
Power Supply: Single 9V battery
Current Consumption: Stand-by current: $\leq 1 \mu\text{A}$
Operating Current: $\leq 60 \text{ mA}$
Auto Shut-Off: 100 seconds
Dimensions: 20 x 85 x 70mm
Weight: 192g

DM-01	Ultrasonic Distance Measurer
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