



Extech offers both contact models for direct measurements and non-contact models (including laser models) for use on machinery where access is limited or high speed measurements are required.

### Featuring Models with:

#### Non-contact rpm

Choice of visible or laser light source

#### Contact rpm and linear speed

Interchangeable tips to match the test requirement

#### Memory

Store and recall Max and Min values

### << 461995 Contact/ Laser Photo Tachometer

*Dual function unit with both contact and non-contact capabilities. Supplied complete with adaptors for rpm and surface measurements. The non-contact function utilizes a narrow beam laser light for improved accuracy at a greater distance.*



461700  
461750  
**\$129**



461891  
**\$199**

### PocketTach™ Mini Tachometers

For rpm and surface speed measurements

- Large easy to read LCD display
- Hold button freezes displayed readings
- Ergonomically designed and pocket size housing with protective finger guard
- 461750 Contact model with surface wheels enable tachometer to measure linear surface speeds in ft/min, m/min, and yd/min
- 461700 Non-contact integral light beam model with ideal measurement range up to 6" (300mm) distance
- Complete with 9V battery: 461700 includes reflective tape and 461750 includes surface wheels

### Contact Tachometer

Fast and accurate RPM and surface speed measurements

- Make contact measurements of rotating objects
- Measure linear surface speeds in ft/min or m/min using three accessory wheels provided
- Recalls Last/MAX/MIN values
- Complete with cone tip, flat tip and spare wheel for surface speed measurements, four 1.5V AA batteries, and carrying case

### Accessories

- 461936.....Spare reflective tape (23" each roll), 5pack.....\$20  
461899.....Set of Spare Wheels for 461891/895/995 .....\$20

### Specifications

Model	461700	461750	461891
Display counts:	99,999 count LCD		99,999 count LCD
Range rpm:	10 to 99,999	10 to 20,000	0.5 to 20,000
ft/min:	—	3 to 6560	0.2 to 6560
m/min:	—	1 to 1999.9	0.05 to 1999.9
yd/min:	—	1 to 5,000	—
Basic Accuracy:	±(0.1%rdg+2d)		±(0.05%rdg+1d)
Max rpm Resolution:	0.001rpm		0.1rpm
Laser:	—		—
Dimensions:	4.9x2x1.3" (124x50x33mm)	5.9x2x1.3" (149x50x33mm)	6.7x2.8x1.5" (170x27x37mm)
Weight:	4oz (114g)	5oz (142g)	9.2oz (260g)
CE:	Yes		Yes
Warranty:	1 year		1 year
Price:	<b>\$129</b>	<b>\$129</b>	<b>\$199</b>

### NIST Certificate \$75

For an additional charge, Extech will supply your meter complete with a Certificate of Calibration Traceable to N.I.S.T. **To order meter with NIST**, add "NIST" to the meter part number and add \$75 to the cost of your meter. (i.e. 461891-NIST \$274).



461893  
461923  
From  
**\$199**

## Photo (non-contact) Tachometers

Choice of Non-contact RPM measurements using visible light or laser light

- Make non-contact rpm measurements of rotating objects
- Use reflective tape on object to be measured and point the integral light beam or laser
- 461923 Laser model can measure up to 6.5ft (2m) away from target
- 461893 photo tachometer with integral light beam has an ideal measurement range up to 6" (152mm) distance
- Readings updated every second
- Recalls Last/MAX/MIN values
- Complete with 23" (0.6m) reflective tape, four 1.5V AA batteries, and carrying case



461895  
**\$229**

## Combination Contact/Photo Tachometer

Combines both contact and non-contact models for use in all applications

- Characters on display reverse direction depending on contact or photo mode
- Uses visible light to read up to 6" (150mm) from target
- Memory/readings button holds last reading for 5 min and recalls min/max readings
- Complete with wheels for linear surface speed or rpm measurements, four 1.5V AA batteries, 23" (0.6m) reflective tape and carrying case



461995  
**\$279**

## Combination Contact/Laser Photo Tachometer

Combines both contact and non-contact models for use in all applications

- Characters on display reverse direction depending on contact or photo mode
- Uses a Laser for greater distance non-contact measurements up to 6.5ft (2m)
- Memory/readings button holds last reading for 5 min and recalls min/max readings
- Complete with wheels for linear surface speed or rpm measurements, four 1.5V AA batteries, 23" (0.6m) reflective tape and carrying case

### Specifications

461893	461923	461895	461995	Model
99,999 count LCD	99,999 count LCD	99,999 count LCD	99,999 count LCD	Display counts
5 to 99,999	10 to 99,999	Photo: 5 to 99,999/ Contact: 0.5 to 19,999	Photo: 10 to 99,999/ Contact: 0.5 to 19,999	Range rpm
—	—	0.2 to 6560	0.2 to 6560	ft/min
—	—	0.05 to 1999.9	0.05 to 1999.9	m/min
—	—	—	—	yd/min
±(0.05%rdg+1d)	±(0.05%rdg+1d)	±(0.05%rdg+1d)	±(0.05%rdg+1d)	Basic Accuracy
0.1rpm	0.1rpm	0.1rpm	0.1rpm	Max. rpm Resolution
—	Yes	—	Yes	Laser
6.7x2.8x1.5" (170x27x37mm)	—	8.5x2.6x1.5" (216x66x38mm)	8.5x2.6x1.5" (216x66x38mm)	Dimensions
8.8oz (250g)	—	10.6oz (300g)	10.6oz (300g)	Weight
Yes	—	Yes	Yes	CE
1 year	—	1 year	1 year	Warranty
<b>\$199</b>	<b>\$249</b>	<b>\$229</b>	<b>\$279</b>	Price

461501

### Digital Tachometer Counter with PC Interface

\$249

Combination Contact/Non-contact Tachometer with a piece count function

#### Features:

- Dual LCD (99,999 counts) displays rpm (revolutions/min) and rps (revolutions/sec)
- Counter mode used to count units on production lines
- Non-contact readings up to 1ft (25cm)
- MAX/MIN/AVG functions
- Data Hold and Auto Power off features
- Tripod mount for stationary use
- Built-in RS-232 PC interface for data acquisition and analysis
- CE approved, one year warranty
- Optional Contact Tachometer Adaptor (461505) for linear surface measurements of m/min, ft/min, and yard/min
- Complete with four 1.5V AA batteries, 23" (0.6m) reflective tape, carrying case, Windows® 95/98/NT/2000/ME/XP compatible software, and cable



Software included



Optional Contact Tachometer Adaptor (461505) for contact RPM and linear surface measurements.

#### Applications

- Non-contact measurements for fans, motors, and gears
- Contact measurements for belts, flywheels, conveyors, pumps, and elevators/escalators
- Counter for production verification.

#### Specifications

Function	Range	Max. Resolution	Basic Accuracy
Photo Tach (Non-contact)			
rpm (rev/min):	10.000 to 99,999	0.001	0.1% ±2 digits
rps (rev/sec, Hz):	0.200 to 2000.0	0.001	0.1% ±2 digits
Contact Tachometer Adaptor (461505) order separately			
rpm (rev/min):	10.00 to 29,999	0.001	0.04% ±2 digits
m/min:	1.000 to 2999.9	0.0001	0.04% ±2 digits
ft/min:	3.000 to 10,000	0.0001	0.04% ±2 digits
yard/min:	1.000 to 3000.0	0.0001	0.04% ±2 digits
Event Counter:			
	0 to 99,999		
Max Input Freq:	10kHz with 5% duty cycle		
Sampling rate:	0.7 second (>60rpm); >1 second (10 to 60 rpm)		
Time base:	4.000MHz Quartz Crystal Oscillator		
Power source:	Four 1.5V "AA" batteries		
Dimensions:	6.8x2.5x1.5" (172x63x38mm)		
Weight (batteries included): 6.7oz (190g)			

#### Ordering

461501	Digital Tachometer Counter	\$249
461501-NIST	Digital Tachometer Counter w/NIST Cert	\$324
461505	Contact Tachometer Adaptor	\$49
461936	Spare Reflective Tape (23' each roll), 5pk	\$20

461950

### 1/8 DIN Panel Tachometer

\$139

Continuous & accurate readings from 5 to 99,990rpm

#### Features:

- Measure rpm from 5 to 99,990rpm with microprocessor quartz crystal accuracy of 0.05%
- Large LED display updates 1/sec (rpm<60)
- Resolution: 0.1rpm (5 to 1000rpm), 1rpm (1000 to 999rpm), 10rpm (10,000rpm to 99,990rpm)
- Unique design permits rpm measurements of a one hole gear or disk eliminating the need for special gears; Powered by 115/230 VAC 50/60Hz
- A pulse is measured when a ferrous object (stud) passes by sensor
- One year warranty
- Choice of two sensor pickup types (both sensors include 6ft/1.8m cable):  
Proximity sensor - 0.1" (3mm) target distance, range up to 36,000rpm (600Hz)  
Photoelectric sensor - 0.4" (10mm) target distance, range up to 6000rpm (1kHz)
- Dimensions: Bezel 3.8x1.9x2.4" (96x48x60mm); Meter 3.6x3.5x1.7" (92x90x42mm); Panel cutout: 3.6x1.8" (92x45mm); Weight: 14oz (397g)



#### Ordering

461950	Panel Mount Tachometer	\$139
461955	Proximity Sensor, max. 36,000rpm	\$29
461957	Photoelectric Sensor, max. 6000rpm	\$99