

# TACHOMETERS



## UMA ELECTRONIC EXPERIMENTAL TACHOMETERS

These electronic tachometers use a 250° sweep meter movement to withstand high levels of vibration and register flight time accurately. The hour meter counts flight hours at RPM settings of 1800 & higher. Power: 12-28VDC. 2-year warranty.

UMA Model#	Range	Description	Part No.	Price
19-819-201	0-7000 RPM	3-1/8" For Rotax 912 Engine B & W Markings, built-in hour-meter	10-00119	---
19-819-211	0-7000 RPM	3-1/8" For Rotax 912 Engine Color Markings	10-04223	---
19-519-211	0-7000 RPM	2-1/4" For Rotax 912 Engine Color Markings	10-01852	---
19-519-213	0-7000 RPM	2-1/4" 3 Pulse Rev Rotax 982	10-05602	---
19-519-216	0-7000 RPM	2-1/4" 6 Pulse Rev Rotax 447 / 503 / 582	10-05603	---
19-811-10C	0-3500 RPM	3-1/8" Electric Lick 6C Sender	10-02116	---
19-801-102	0-3500 RPM	3-1/8" *To replace Mechanical Tachometer (reads CW or CCW; B&W Dial Only) Furnished w/ mechanical sender	10-00120	---
19-801-112	0-3500 RPM	3-1/8" *To replace Mechanical Tachometer (Green Arc 500-2700 - Red 2700) Furnished w/mechanical sender	10-00121	---

## UMA 2-1/4" ELECTRONIC TACHOMETERS

These tachs have high resolution and easy to read displays. The analog model has a 250° sweep which provides great resolution in both the 3500 & 7000 ranges. The digital model has a bright LED display. Separate power source required. All tachs require power from a 14 or 28V system. Installations are simple with instructions included.



**3500 ANALOG TACH** - Lycoming/Continental (to replace mechanical tachs) Current: 37 milliamps Size: 2.25"rnd. X 2.75"deep. Magnetic pickup (6 ft. cable length) included with P/N's 10-02141 and 10-02140 (T1A9). 6 ft. harness, sending unit, and .156 diameter tang adapter included with P/N 10-00083 (1A3-4).

0-3500 RPM, 4 cyl., Pulses:1 .....P/N 10-02140 ..... ---  
 0-3500 RPM, 4 cyl., Pulses:2 .....P/N 10-00083 ..... ---  
 0-3500 RPM, 6 cyl.....P/N 10-02141 ..... ---



**7000 ANALOG TACH** - Current: 37 milliamps; Size: 2.25" round X 2.75" deep  
 Rotax 19-519-206 .....P/N 10-01854 ..... ---  
 Rotax 912 .....P/N 10-01853 ..... ---  
 Rotax 912/914 Lit.....P/N 10-02053 ..... ---

\* P/N 10-00120, 10-00121, 10-24870, & 10-24885 tachs eliminate the problems associated with mechanical tach cables, and the sending unit is a direct replacement for the tach cable. All models are analog style tachs with hour meters and can read RPM for either clockwise or counter-clockwise revolutions. Sender included. \*\*Slick Mags Only



## EM8000 TACH GENERATOR

EM8000 Quality Tach Generator (4-pole). Aircraft tach generators measure an airplane's engine speed electrically. By using the rotation of a magnet to emit voltage, the frequency of the voltage is measured into revolutions per minute. This rpm is then reported to the tachometer for a visual readout to the pilot.

P/N 08-15987 ..... ---



## UMA ELECTRONIC TSO'D TACHS

Owners of Lycoming & d Continental powered airplanes now have an electronic, analog alternative to the old cable driven tachometer. The new UMA tach is certified to FAA TSO C49b standards for fixed wing aircraft. The system uses a tach sender mounted on the engine in place of the mechanical cable and is connected to the indicator with a single, 3-conductor cable. The 3 1/8" indicator utilizes a high torque pivot and jewel movement. The hour meter can be factory set to start at any desired RPM point. This unit gives the pilot the analog display that is easiest to scan and provides electronic accuracy and ease of installation. Custom dial markings in color & internal Electro-Luminescent lighting are available at extra cost. UMA manufactures a complete line of TSO'd & non-TSO'd gauges & instruments in the USA.

UMA Model#	Range	Dial Marking	Part No.	Price
T19-801-10	0-3500 RPM	Black & White	10-01221	---
T19-801-11	0-3500 RPM	Green Arc 500-2700 & Red Line 2700RPM(Lyc.)	10-01222	---
T19-801-112N	0-3500 RPM	TSO w/o Hourmeter	10-07143	---



## UMA ELECTRONIC TACHOMETER WITH HOURMETER

3 1/8" Analog Tachometer with hourmeter. 4 Cylinder. 0-3500 RPM. Records engine time above a set RPM point. Standard set point is 1800 RPM. Engine Type: Continental/Lycoming. TSO'd Magnetic pickup for Slick or Bendix Magnetos (6 ft. cable length), alternative to p-lead connections ..... P/N 10-04868 ..... ---

## TRU-TACH II DIGITAL TACHOMETER



Mechanical tachometers are notoriously inaccurate. The TruTach II Optical Digital Tachometer measures the true speed of your propeller from inside or outside the aircraft. Just point it at the propeller or rotor blades and TruTach II will directly display the rotational speed with a resolution of 1 RPM. No connection to aircraft systems is required and measurements may be made at any speed setting from 240 to 70000 RPM. Direct display is available for 2, 3, 4, and 5 blade propellers. Digital Signal Processing assures rock-solid display in single and multi-engine aircraft as well as helicopters. The compact 4-inch instrument weighs just 4 ounces and may be used with fast turning ultra-lights and kit plane propellers. Automatic shut-off turns the unit off if you forget. Includes 9 volt battery providing 150 hours of operation. P/N 10-01021 ..... ---

## 2-1/4" REMOTE HEAD TACHOMETER



This tachometer is driven with power supplied by a transducer on the engine tach drive. Range 0-3500 RPM. Wt. 6 oz. Includes Gauge, sender, and tang. Sender only .....P/N 10-02084 ..... ---  
 Tang only .....P/N 444-2 ..... ---

## WESTACH TACHOMETERS



**KY3GA3-1/2A** - 500-3,500 RPM with hourmeter kit, 3-1/8" sq., 1/2 to 1 ratio. adjustable, with 303 DGT sender, 444-2 tang, 208-SS-SS cable. P/N 10-02644 ..... ---



**K3GA3-1/2A** - Tachometer 500-3,500 RPM kit, 3-1/8" square, 1/2 to 1 ratio. adjustable with 303DGT sender, 444-2 tang, 208-SS-SS cable. Does not come with a sender .....P/N 10-02643 ..... ---

Made in the U.S.A

## UMA SENDING UNITS FOR TACHOMETERS



### UNIT 1A3-4

Sending Unit 1A3-4 only .....P/N 10-01706 ..... ---

### T1A9

Magnetic pickup for Slick or Bendix Magnetos (6 ft. cable lengths)

Slick .....P/N 10-02432 ..... ---

Bendix.....P/N 10-02433 ..... ---

