

# 900 Series Tachometers



**A** METEK Dixon's 900 Series 3000-rpm tachometer is a precision instrument specially engineered to withstand the rigors of year-in, year-out operation in commercial truck and heavy equipment applications. It features a quartz timebase for high accuracy and a talc-filled-polypropylene housing. Available in 3 $\frac{3}{8}$ -inch or 5-inch cutout sizes, the tachometer has a glass lens with splash-proof front seal, high-visibility orange pointer, easy-to-read dial, and externally accessible switches for easy field calibration without test equipment or signal generators.

Choose from: black, chrome, or striped bezels; orange or white pointers; and 12-volt or 24-volt operation. 900 Series tachometers accept pulsed inputs from a magnetic sensor. 2,400-rpm and 3,500-rpm versions are also available.

The optional 100,000-hour hourmeter is stepper-motor driven and runs only when the engine is running. It features  $\frac{1}{10}$ -hour resolution with an activity indicator. Optional custom dial graphics are also available to meet your particular application.

We warrant our 900 Series instruments to be free from material and workmanship defects for one year from date of delivery or 100,000 miles, whichever occurs first.

## Features

- Reliable AccuCoil™ II vector meter movement
- 12- or 24-volt operation
- Glass lens with splash-proof front seal
- Choice of black, chrome, or striped bezel
- Choice of orange or white pointer
- Wireless bulb/socket assemblies with low wattage bulbs
- Externally accessible configuration switches
- Simple U-clamp mounting
- Magnetic sensor input

## Common Applications Data Table

Part Number	Volts	Bezel	Pointer
<b>900 Series, 3<math>\frac{3}{8}</math>"</b>			
930C0-49702	12	Striped	White
<b>900 Series 5"</b>			
930C0-49681	12	Black	Orange
Other configurations available. Please call the factory or your AMETEK Dixon sales representative for application information and assistance.			

## Specifications

### PHYSICAL CHARACTERISTICS

Bezel:	Black aluminum standard, others available
Case:	Blue, talc-filled polypropylene
Lens:	Glass with splash-proof front seal
Panel cutout:	SAE 3 <sup>3</sup> / <sub>8</sub> or 5-inch diameter hole
Pointer:	Orange or white
Dial:	0 to 3,000 standard, white/amber standard, other dials available
Optional hourmeter:	6-digit, 99,999.9 before roll-over

### ENVIRONMENTAL CHARACTERISTICS (Operating and Storage)

Temperature and humidity:	Meets or exceeds SAE #J1455-1984-08
Shock and vibration:	Meets or exceeds SAE #J1455-1984-08

### ELECTRICAL CHARACTERISTICS

Operating voltage:	+12 or +24 VDC
Start protection:	12-volt input: withstands 24 VDC external jump-start for 10 minutes 24-volt input: withstands 48 VDC external jump-start for 10 minutes
Transient protection:	Meets or exceeds SAE #J1455-1984-08
Input signal:	2 to 50 volts peak-to-peak, sine or square wave; 1,875 to 4,250 Hertz at half-scale; 12 pulses per revolution (electronic engines)

### ACCURACY

Tachometer and optional hourmeter meet or exceed the accuracy specifications set forth in SAE #J1399-1984-06.

## Dimensions and Connections

287 27 Road, Grand Junction, CO 81503  
**Phone:** (970) 244-1241 • FAX: (970) 245-6267  
**Toll-Free:** (888) 302-0639  
**Internet:** [www.ametek.com/dixson](http://www.ametek.com/dixson)  
**E-mail:** [info.dixson@ametec.com](mailto:info.dixson@ametec.com)