

### STANDARD FEATURES

- 10-50,000 RPM Actual Drive Speed
- High accuracy
- 0.01 Display Resolution
- Direct Drive
- Bi-directional
- Keypad entry with LCD display
- Optional Calibration Kit Available

### DESCRIPTION

The Model 1921 Tachometer Tester is used for the testing and calibration of electrical and mechanical tachometer generators and indicators, specifically handheld models. Two variable speed brushless motors eliminate the need for gears while providing for a testing range of 10 to 50,000 RPM. Each motor/shaft is controlled by closed loop system utilizing hall/encoder feedback and a digital motion control card. The result is a very reliable system with a speed accuracy of 0.005%.

The control panel consists of a LCD back-lit display with keypad entry, illuminated power switch, emergency stop button and a shaft rotating indicator.

Rev E4



# SPECIFICATIONS

<b>Model 1921</b>	
Drive Type:	Direct Drive Brushless Servo
Number of Drives:	2
Drive Outlet:	Ø0.25 inch.
Shaft Speed Range:	Total Range: 10-50,000 RPM Bi-directional Shaft A range: 10-5,000 Shaft B range: 5,000.01-50,000
Dimensions:	15.7W x 14.7D x 7 H in.
Approximate Weight:	35 lbs. (16Kg)
Digital Display:	RS-232
<ul style="list-style-type: none"> <li>• Accuracy</li> <li>• Units</li> <li>• Resolution</li> </ul>	0.1% (10-199.99 RPM) 0.005% (200-50,000 RPM) RPM, Inches/Min, Feet/Min, Yards/Min, Meters/Min 0.01 for all displayed units
Shaft Speed Stability	0.1% (10-199.99 RPM) 0.005% (200-50,000 RPM)
Power Requirements:	115VAC, 50-60 Hz, 6.25A; 230VAC Optional
Operating Environment:	
<ul style="list-style-type: none"> <li>• Temperature</li> <li>• Relative Humidity</li> </ul>	67° to 79°F (19° to 26°C) 20% to 50%
Storage Environment:	
<ul style="list-style-type: none"> <li>• Temperature</li> <li>• Relative Humidity</li> </ul>	-40° to 160°F (-40° to 71°C) 0% to 100% non-condensing
Shipping Environment:	
<ul style="list-style-type: none"> <li>• Temperature</li> <li>• Relative Humidity</li> <li>• Altitude Maximum</li> </ul>	-40° to 160°F (-40° to 71°C) 0% to 100% non-condensing 15,000 ft (4,572 m)
Protective Shield	Polycarbonate shield mounted above motor shafts
Front Panel Controls	Illuminated Power Switch, Keypad/Display, Emergency Stop, and Shaft Rotating Indicator
Adapter Wheels	60° Cone Wheel, 90° Cone Wheel, 60° Countersunk, 90° Countersunk, Linear Speed, Photoelectric
Recommended Calibration Interval	1 Year

## Buyers Guide

Model Number	Part Number	Description
Model 1921	230440-2	115Vac, 50/60 Hz
Model 1921	230440-3	230Vac, 50/60 Hz
Model 1921 Calibration Kit	230440-909	Calibration Kit for Model 1921

For special requirements or custom specifications, contact Ideal Aerosmith, Inc. Prices and specifications are subject to change without notice Rev E4  
 Please state your Power Requirement when ordering  
 Price is in U.S. Dollars