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<u>Datasheet</u>

TACHOMETER TESTER

Model 1921

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 backlit display with keypad entry, illuminated power switch, emergency stop button and a shaft rotating indicator.



- 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

SPECIFICATIONS

Model 1921		
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	
Accuracy	0.1% (10-199.99 RPM) 0.005% (200-50,000 RPM)	
Units	RPM, Inches/Min, Feet/Min, Yards/Min, Meters/Min	
Resolution	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:		
Temperature	67° to 79°F (19° to 26°C)	
Relative Humidity	20% to 50%	
Storage Environment: Temperature Relative Humidity 	-40° to 160°F (-40° to 71°C) 0% to 100% non-condensing	
Shipping Environment:		
Temperature	-40° to 160°F (-40°to 71°C)	
Relative Humidity	0% to 100% non-condensing	
Altitude Maximum	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	230440-909	Calibration Kit for Model 1921
Calibration Kit		

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

Rev E3