

Turbine Temperature Test Set

TT1200A

The Barfield TT1200A is our latest Digital Turbine Temperature Test Set. It is microprocessor based, completely self-contained, battery powered unit housed in a new high visibility ruggedized enclosure. It is designed with sufficient accuracies and range to be able to test the newest digital and glass cockpit indicators with simple operation, direct reading, and multi-function versatility.

The TT1200A is specifically designed to accomplish all requirements for testing the aircraft Chromel/Alumel (K type) turbine temperature measuring systems. The Test Set can measure resistances down to 0.001Ω , measure insulation up to $200M\Omega$, perform indicator run-outs with a resolution of $.1^{\circ}\text{C}$ or 1°C and a range of 1372°C . It can also display the equivalent $^{\circ}\text{F}$ or millivolts and may be used as a master indicator.

The TT1200A exceeds all of the operational capabilities of the popular Barfield TT1000A. Many new features include: microprocessor based, backlit alphanumeric display, user prompts, $^{\circ}\text{F}$ and millivoltage display, temperature range to 1372°C , 4 resistance and 4 insulation ranges and power comes from common "C" batteries for all functions.



Features

- > Displays the temperature in $^{\circ}\text{F}$ in addition to $^{\circ}\text{C}$ and millivoltage
- > Has a calibrated temperature range of 1372°C
- > Powered from long lasting C-cell batteries with auto-off feature to conserve batteries
- > True 4-wire resistance measurements
- > Calibration date reminder available from display with user alerts for approaching CAL date
- > Backlit 16-character alphanumeric display with user prompts
- > CE certified
- > Accuracy: Typical measurement error at ambient (25°C) less than $\pm 0.5^{\circ}\text{C}$

TT1200A Accessories

101-00932 Adapter cable for testing GE CF6-80 A, A1 and C2 engines.

101-00933 Adapter cable for testing GE CF6-6 and CF6-50 engines.

TT1200A Dimensions

	in.	cm.
Height	7.0	17.8
Width	11.0	27.9
Depth	10.0	25.4
Weight	lbs. 7.3	kg 3.3

Barfield, Inc.
 4101 NW 29th Street
 Miami, FL 33142
 Tel: +1 305-894-5400
 Fax: +1 305-894-5401

Call us regarding export restrictions

Turbine Temperature Specifications

Temperature Measurement

	TT1000A	TT1200A
Range	0 to 1000°C certified -60 to 1160°C extended	0 to 1300°C certified -50 to 1372°C extended
Accuracy	Typical measurement error at ambient (25°C) less than ± 1 °C	Typical measurement error at ambient (25 °C) less than ± 0.5 °C

Lead Resistance Measurement

	TT1000A	TT1200A
20Ω Range and resolution	0-19.99Ω in 0.01Ω increments	0-19.999Ω in 0.001Ω increments
200Ω Range and resolution	0-199.9Ω in 0.1Ω increments	0-199.99Ω in 0.01Ω increments
2kΩ Range and resolution	N/A	0-1.9999kΩ in 0.000kΩ increments
20kΩ Range and resolution	N/A	0-199.99kΩ in 0.01kΩ increments
Accuracy	±0.1% of reading ± 0.01Ω (20Ω) ±0.1% of reading ± 0.1Ω (200Ω)	±0.05% of reading ± 2 counts

Insulation Measurement

	TT1000A	TT1200A
200kΩ Range and resolution	N/A	0-199.9kΩ in 0.1kΩ increments
2MΩ Range and resolution	0-1.999MΩ in 1kΩ increments	0-1.999MΩ in 0.001MΩ increments
20MΩ Range and resolution	N/A	0-19.99MΩ in 0.01MΩ increments
200MΩ Range and resolution	N/A	0-200MΩ in 5MΩ increments
Accuracy	3% of reading ± 1kΩ	5% of reading ± 5 counts (200kΩ, 2MΩ, 20MΩ) 10% of reading ± 5 counts (200MΩ)
Excitation	45V	45V

Other Specifications

	TT1000A	TT1200A
System resistance range	Variable resistance between 2Ω to 25Ω	Variable resistance between 2Ω to 25Ω
Operating temperature	0 to 50 °C	0 to 50 °C

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4101 NW 29th Street.
Miami, Fl. 33142
Phone Line: (305) 894-5400
Fax Line: (305) 894-5401