

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 200MΩ, perform indicator run-outs with a resolution of .1°C or 1°C and a range of 1372°C. It can also display the equivalent °F or millivoltages 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, °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.

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.



Features

- > Displays the temperature in °F in addition to °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 ± 0.5°C

TT1200A Dimensions

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

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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 $\pm 1^\circ\text{C}$	Typical measurement error at ambient (25°C) less than $\pm 0.5^\circ\text{C}$

Lead Resistance Measurement

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

Insulation Measurement

	TT1000A	TT1200A
200k Ω Range and resolution	N/A	0-199.9k Ω in 0.1k Ω increments
2M Ω Range and resolution	0-1.999M Ω in 1k Ω increments	0-1.999M Ω in 0.001M Ω increments
20M Ω Range and resolution	N/A	0-19.99M Ω in 0.01M Ω increments
200M Ω Range and resolution	N/A	0-200M Ω in 5M Ω increments
Accuracy	3% of reading $\pm 1\text{k}\Omega$	5% of reading ± 5 counts (200k Ω , 2M Ω , 20M Ω) 10% of reading ± 5 counts (200M Ω)
Excitation	45V	45V

Other Specifications

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