

BARFIELD
TT-1000A

OPERATING INSTRUCTIONS

PRELIMINARY PRECAUTIONS

- 1 Remove thermocouple leads at indicator or other accessible terminals.
- 2 Measure system resistance with cold engine for greatest accuracy.
- 3 Approximately 45 VDC (no load) is present on Test Leads when making insulation measurements.
- 4 'BAT' warning on display indicates low system battery only.
- 5 Allow test clips time to reach ambient for all temperature tests.
- 6 Turn battery switch 'ON' for all tests.

MEASURE SYSTEM RESISTANCE

- 1 FUNCTION to 'RESISTANCE MEASURE'.
- 2 RESISTANCE RANGE to '20 Ω' or '200 Ω' for systems over 20 ohms.
- 3 Connect clips to leads removed from indicator terminals.
- 4 Press 'PUSH TO MEASURE' black button to read resistance.

P/N 245-00041

MEASURE INSULATION

- 1 FUNCTION to 'RESISTANCE MEASURE'.
- 2 RESISTANCE RANGE to '2M Ω'.
- 3 Connect black clip to airframe and red clip to thermocouple leads.
- 4 Press 'PUSH TO MEASURE' black button and read resistance in megohms.

INDICATOR TEST (With Lead Res.)

- 1 FUNCTION to 'RESISTANCE MEASURE'.
- 2 RESISTANCE RANGE to '20 Ω' under 20 ohms; '200 Ω' for greater than 20 ohms.
- 3 Short test clips together.
- 4 Press red 'PUSH TO SET' button and adjust SYSTEM RES for system resistance to be simulated.
- 5 Set FUNCTION to 'INDICATOR TEST'.
- 6 Connect black clip to (-) alumel indicator terminal and red to (+) chromel terminal.
- 7 Set TEMP ADJ for temperature test desired and compare with indicator.

INDICATOR TEST (Without Lead Res.)

- 1 FUNCTION to 'INDICATOR TEST'.
- 2 RESISTANCE RANGE to '2M Ω' (0.1 SYS RES).
- 3 Connect black clip to (-) alumel indicator lead; red to (+) chromel.

TEMPERATURE MEASUREMENT

- 1 FUNCTION to 'TEMP MEASURE'.
- 2 Connect black clip to alumel (-) thermocouple lead and red to chromel (+) lead.
- 3 Read indicated temperature.

INSULATION BATTERY TEST

- 1 FUNCTION TO 'RESISTANCE MEASURE'.
- 2 RESISTANCE RANGE to 'BAT' and read battery voltage (30-50V).

NOTE: A display of "L _____" indicates an overrange. (BEYOND FULL SCALE)

Printed in U.S.A.

NOTE
FUSE LOCATED INSIDE
REPLACE WITH AGC 12

BARFIELD
TT-1000A
DIGITAL TURBINE TEMPERATURE TEST SET

ON
OFF



BARFIELD
P.N.: 101 00001
S.N.: 1055
Call Date: 0-23-8012
Due Date: 0-23-8012
Inspector: C. G. Jones

RES.
0Ω 25Ω

SHORT TEST LEADS
AND PUSH TO SET
SYSTEM RES.

MIN. MAX.

RESISTANCE RANGE
MΩ (0.1 SYS RES)
BAT

PUSH TO MEASURE
ACFT. LEAD RES.

INDICATOR TEST
RESISTANCE MEASURE
TEMP MEASURE
FUNCTION



BARFIELD
TT-1000A
DIGITAL TURBINE TEMPERATURE TEST SET
P/N: 101 00001
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BARFIELD INC.
4101 N.W. 29TH ST.
Miami Fl - 33142
(800) 321-1039



**CERTIFICATE OF CALIBRATION/
FUNCTIONAL TEST**

W.O. No.: WO1231379

Customer Name: PIUS PARTS

Date of Certification: 9/5/2025 Certification Due Date: 9/5/2026
Part Number: 101-00901 Received in Tolerance: YES
Serial Number: 1895 Returned in Tolerance: YES
Description: DIGITAL TURBINE TEMP. T/S Temperature: 74°
Manufacturer: BARFIELD INC. Humidity: 51%

Calibration Procedure Used: 20-101-00901

Deviation: N/A

STANDARDS USED TO CERTIFY EQUIPMENT

Equipment	Serial Number	Last Date Calibrated	Next Calibration Date
4115EB	184D18118	9/24	9/25
4782E	77358	8/25	8/26
3729EB	4485009	7/25	7/26
2398EA	B8119	7/25	10/25
3444EA	BA196	1/25	1/26

Comments: NO FAULT FOUND.

Results: CALIBRATED AND TESTED W/I MFG SPECS.

This is to certify that the above listed part number meets or exceeds all specifications as stated in the referenced procedure at the points tested (unless otherwise noted). Calibration Standards used in the calibration of this product are traceable to the National Institute of Standards and Technology (NIST). Unless otherwise stated the uncertainty of the measurement standards shall not exceed 25% of the acceptable tolerance. This calibration is in accordance with Barfield Inc. Quality Management System (QPM-7.6) which is ISO 9001:2015/AS9100 D certified and compliant with MIL-STD-45662A, ANSI/NCSL Z540.1-1994 (R2002) and ISO 10012.

This certificate applies only to item identified and shall not be reproduced without the permission from Barfield Inc.

F.D. 01045

Certified by: Freddy Dugué Title/Stamp: Q.C. INSPECTOR

Dated: 9/5/2025