PORTABLE ENGINE TEST SETS & TRIMMERS





NSN 6685-01-569-7682 Rolls-Royce P/N 23076502

H395

High Current and Resistance Thermocouple Tester T56-7 Series and T56-15 Series

Howell's portable, lightweight H395 High Current and Resistance Thermocouple tester provides fast, accurate test results. The user-friendly unit provides multi-voltage capabilities and tests insulation resistance and high current resistance of T56 series thermocouples.

The H395:

- Statically tests thermocouples on-bench with test receptacle or on-wing with available remote cable
- Offers manual or automatic test options
- Injects current across both T/C junctions and provides results on a digital display
- Automatically exercises TC 1 to GND, TC 2 to GND, and TC 1 to TC 2 for shorts/ opens
- Contains microprocessor for program storage
- Features toggle switches for quick and easy test setup
- Provides ruggedized, deployable housing with snap locks and carrying handle
- Contains storage compartment for power and adapter cables
- Has an environmentally sealed deck to help prolong the life of the unit



Specifications				
Weight	15 lbs			
Dimensions	32 in. H x 12 in. W x 8.75 in. D			
Inputs	115 VAC, 50 to 400 Hz, 230 VAC, 50 to 60 Hz, or 28 VDC nominal			
Output	10A Maximum, 5 VDC			
Accuracy	Off-aircraft testing: $\pm 0.0045~\Omega$ On-aircraft testing: $\pm 0.0068~\Omega$			

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H395 .39 GND ($\langle \rangle$ J2 (⊗ ⊗` 3 ' ⊗ **⊗** HOWELL INSTRUMENTS, INC Fort Worth Texas, U.S.A. \bigcirc T/C 2 T/C I \bigcirc ✨ ℿ \otimes T/C I **POWER INPUT** ♦ < 28 VDC / II5 / 230 VAC (50 - 400 Hz I-PH ONLY, W/GND) ♦ КОНМ FORWARD 505 T/C RCPT **OHMS** INPUT CKT BRKR 9.70 $\langle \rangle$ (5) $\langle\!\langle\rangle$ 8.75 0 конм ℿ DC AC T/C 2 ◈ ♦ ♦ ♦ ◈ **POWER** AUTOMATIC TEST OPEN TIP T/C ♦ T/C ON T/C REMOTE CLOSED TIP MANUAL TEST $\langle \rangle$ $\langle \rangle$

H395 T56 TYPE II & III THERMOCOUPLE (T/C) TESTER OPERATING INSTRUCTIONS

ALWAYS REFER TO TECHNICAL DATA FOR TEST LIMITS, COMPLETE OPERATING INSTRUCTIONS, AND NOTES, WARNINGS AND CAUTIONS BEFORE USE

BENCH TESTING THERMOCOUPLES

- Ensure all control switches are in the OFF position.

 Connect power cable to J1 connector at tester.

 Insert and secure thermocouple (T/C) in test receptacle.

 Place POWER switch to ON and wait for successful completion of Bull-tin-Test.
- Built-in-Test.

 Set OPEN TIP T/C-OFF-CLOSED TIP T/C to appropriate setting
- Set OPEN TIP TIC-OPH-CLUSHED INF TIA. TO appropriates
 for TIC under texts. switch to OPF.
 Select AUTOMATIC TEST or MANUAL TEST as desired.
 A. Automatic Testing
 Tester will complete test aroutinot.
 1) INSUL a. TIC 1 to GND
 2.20 (CMD) 2.20 (CMD

		≥ 20 Kohms
	c. T/C 1 to T/C 2	
2) T/C OPEN TIP	a. T/C 1	0.045 to 0.085 ohms
	b. T/C 2	0.043 to 0.063 011115
3) T/C CLOSED TIP	a. T/C 1	0.500 to 0.900 ohms
	b. T/C 2	

Manual Testing
For manual testing, select T/C or INSUL as desired and observe results as above.

ON-ENGINE TESTING OF THERMOCOUPLES

- Ensure all control switches are in the OFF position.
 Connect power cable to J1 connector at tester.
 Connect remote testing adaptor cable (if supplied) to J3

- 3. Connect remote testing adaptor cable (if supplied) to J3 connector at tester.

 4. Place POWER switch to ON and wait for successful completion of Ballish-Test (BIT),

 5. Set OPEN TIP TIC-OFF-INISUL switch to OFF.

 6. Set TIC-OFF-INISUL switch to OFF.

 7. Select AUTOMATIC TEST or MANUAL TEST as desired.

 8. Inhibitar remote testing by using ON-OFF switch on Adaptor cable.

 9. AUTOMATIC or MANUAL testing will be accomplished as selected. (See #7 of Bench Testing Thermocouples.)



Howell Instruments, Inc.

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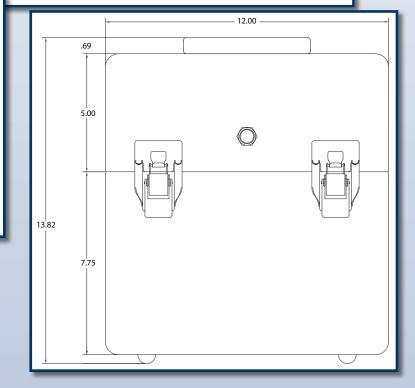
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