



GT2 Gage Installation Tester



Features:

- A compact instrument to verify the electrical quality of a strain gage installation before it is placed in service
- To read insulation resistance (leakage) to 20,000 M Ω with 15 VDC
- To measure the deviation of installed gage resistance from precise standard to a resolution of 0.0001%
- Ohmmeter scale to diagnose and solve questionable installations
- To verify the complete gage circuit including lead-wires

Applications:

Description:

After installing strain gage, the main quality verification and examination test are the isolation impedance and resistance shift.

The strain gage is made by foil alloy. Its isolation impedance after installing is more than 20 G Ω .

Use room-temperature curing adhesive, the gage resistance shift value must be less than 0.5%.

Use bake curing adhesive, the gage resistance shift value must be less than 2%.

When G. F. is 2, the resolution of GT2, being a strain indicator, is 2 $\mu\epsilon$.



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1-4

Specification:

- Input Circuits
 - Gages: Three-wire quarter bridge (120 Ω and 350 Ω) and half bridge. Other value quarter bridges using customer's reference, at readily accessible panel terminals
 - As ohmmeter: Two leads (500 Ω and 500 M Ω midscale)
- Input Leads
 - 4 ft (1.2 m) 4-conductor AWG #26 (0.4 mm diameter) twisted Teflon®-insulation cable (with ground clip and three tinned leads)
- Mode Switch
 - Three section rotor switch: $\pm 10\%$ deviation, gage resistance (Ω), and insulation resistance (M Ω)
- Accuracy
 - 10% range: 0.001% ΔR (2 meter graduations)
 - Excitation
 - 1.25VDC per gage
- Insulation Resistance Mode
 - Test Voltage: 15VDC open circuit
 - Ohm Mode
 - Graduated 5 Ω to 20 k Ω (500 Ω mid-scale)
 - Test Voltage: 2 VDC open circuit (0.4 VDC, 120 Ω)
- Operational Environment
 - Operation temperature: -10° C ~ 60° C
 - Storage: -20° C ~ 70° C
 - Humidity: Below to 95% RH, non-condensing
- Dimension & Weight
 - Aluminum case: 8.0" X 3.4" X 2.4" (202 X 87 X 60 mm)
 - 3.5 Lb (1.6 Kg) with Adaptor
- Power Requirement
 - 110~220 VAC $\pm 10\%$, 50 or 60 Hz

Special Purpose Strain Gage Instrument

