



Temperature Coefficient Resistor Measurement System

Model:ULOM-T



Measurement System specs

1. Resistance measure: 1ohm to 10Mohm.
2. Lowest TCR measurement:>0.015ppm @100 degree C for resistance >70mohm
3. Accuracy: $\pm 0.006\%$ rdg. $\pm 0.001\%$ fs
4. Multiplexer card: 4 wire Kelvin X 20 chs
5. Accuracy traceability : Hioki Model 3545-02

** This is the measurement system specs.

Calibration System

1. PR camera to Substrate on Work-holder.
2. Substrate on Work-holder to Laser.
3. Substrate on Work-holder to Probe tip.
4. Qtest measurement to Hioki to ensure accurate measurement and traceability.

Functional Specifications

1. Resistor panel size: 50x60mm/60x70mm
2. Temperature Work-holder:
 - A. High: 50~180 C
 - B. Low: 20~30 C
3. Laser: to cut open resistors that failed limits comes with galvanometer and F-theta lens
4. Probe card: multiplex to measure 10 resistors at one time sequentially.
5. Functional cycle:
 1. pickup panels from In-loader.
 2. Place on both temperature work-holder.
 3. Wait for temperature to stabilized.
 4. Measure resistor at both temperature.
 5. Mark these that failed for laser trim.
 6. Pickup and place on Laser Trim Work-holder and trim these out of limits
 7. Pick and place panel on to out loader bin.

Site Environment Requirement

1. Supply voltage : 3 phase, 415 VAC, 50Hz
2. Power consumption: 25amps
3. Supply Air: 6 bar
4. MTBA: 2 hours

Mechanical Handler Specifications

- Loader Stacker high : 25mm
- Unloader stacker high : 25mm
- Actuator drive by servo motor
- Actuator repeatability +/-0.02mm

Camera/Optics

1. PR Camera for automatic panel positioning and measurement
2. User Aid camera: use for probe contact to resistor panel calibration confirmation.

Machine dimension :

1200mm(L) x 1380mm(W) x 1950mm(H)
Weight: approx 800kg.

Qtest reserves the right to change its equipment specifications without prior notice

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