

Associated Research 6554SA

Quadchek 4-in-1 Automated Electrical Safety Analyzer

The QUADCHEK Electrical Safety Compliance Analyzer is another step in the evolution of electrical safety testing instrumentation. The QUADCHEK provides in a single instrument for the three most common high voltage tests (AC Hipot, DC Hipot, Insulation Resistance) together with a high current Ground Bond Tester. The 4-in-1 capabilities of QUADCHEK make it versatile enough to test to UL, CSA, VDE, IEC, TUV, and other agency requirements. The built-in IEEE interface makes QUADCHEK an ideal choice for automation applications.

6554SA Functional Specifications

DIELECTRIC WITHSTAND TEST MODE

INPUT:

115 VAC ($\pm 15\%$), 47 Hz - 63 Hz, Single Phase, 230 VAC ($\pm 15\%$), 47 Hz - 63 Hz, Single Phase, User Selectable

OUTPUT RATING:

5 kV @ 40 mA, (AC & DC)

OUTPUT ADJUSTMENT:

0 - 5 kV (AC & DC), 10 volt/step, 0 - 40.0 mA (AC & DC), 0.1 mA/step

HIGH TRIP RANGE:

0.1 mA - 40.0 mA, (AC & DC), Accuracy \pm (2% of setting + 0.02 mA)

LOW TRIP RANGE:

0 - 39.9 mA, (AC & DC), Accuracy \pm (2% of setting + 0.02 mA)

FAILURE DETECTOR:

Audible & Visual

VOLTAGE DISPLAY:

0 to 5.00 kV Full Scale, LED Display, Accuracy - Reading \pm (2% of reading + 1 count), Setting \pm (2% of setting + 5 volts)

CURRENT DISPLAY:

0.05 mA to 9.99 mA, 10.0 to 40.0 mA, LED Display, Accuracy - Reading \pm ((2% of reading + 0.02 mA)

DC OUTPUT RIPPLE:

<4% RMS (5 kVDC, 40 mA)

AC OUTPUT WAVEFORM:

Sine wave, Distortion: <1%

AC OUTPUT FREQUENCY:

50 Hz or 60 Hz \pm 100 PPM, User Selectable

OUTPUT REGULATION:

1% of setting from no load to full load

DWELL TIMER:

1 - 999 seconds in 1 second increments, or continuous, accuracy ± 0.1 seconds

RAMP TIMER:

0 - 99 seconds in 1 second increments, accuracy ± 0.1 seconds

INSULATION RESISTANCE TEST MODE

OUTPUT VOLTAGE RANGE:

200 VDC -1000 VDC, 1 volt/step

VOLTAGE METERING:

3 Digits, 0 - 1 .00 kV, Accuracy $\pm (2\% \text{ of reading} + 1 \text{ count})$

RESISTANCE METERING:

3 Digits, 9.99 G Ohms Full Scale, Accuracy $\pm (2\% \text{ of reading} + 1 \text{ count})$

LIMIT RANGES:

HI Limit range 0 - 9999 M Ohms, LO Limit range 0 -9999 M Ohms

DWELL TIMER:

1 - 999 seconds in 1 second increments, Accuracy ± 0.1 seconds

GROUND BOND TEST MODE

OUTPUT VOLTAGE:

Adjustable (5.0 VAC to 12.0 VAC, 0.1 volt/step), Setting Accuracy $\pm (2\% \text{ of setting} + 0.1 \text{ volt})$

OUTPUT FREQUENCY:

50 Hz or 60 Hz, User Selectable

OUTPUT CURRENT:

Adjustable (10.0 Amps to 30.0 Amps, 0.1 amp/step)

CURRENT DISPLAY:

3 digits, 30.0 Amps full scale, LED Display, Accuracy $\pm (2\% \text{ of reading} + 1 \text{ count})$

TRIP RANGE:

1 to 600 m Ohms

DWELL TIMER:

1 - 999 seconds in 1 second increments, or continuous, accuracy ± 0.1 seconds