## 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.

## **Functional Specifications**

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DIELECTRIC WITHSTAND TEST MODE		
INPUT	115 VAC (±15%),47-63 Hz,Single Phase 230 VAC (±15%),47-63 Hz,Single Phase User Selectable	
OUTPUT RATING	5kV @ 40mA,(AC &DC)	
OUTPUT ADJUSTMENT	0 - 5kV @ 40 mA (AC &DC), 10 volt/step 0 - 40.0 mA (AC & DC), 0.1 mA/step	
HIGH TRIP RANGE	0 .1 -40 .0 mA, (AC &DC) Accuracy ± ((2% of setting +0 .02 mA)	
LOW TRIP RANGE	0 .0 - 39.9 mA, (AC &DC) Accuracy ± ((2% of setting +0 .02 mA)	
FAILURE DETECTOR	Audible &Visual	
VOLTAGE DISPLAY	0 .00 to 5 .00 kV Full Scale, LED Display Accuracy - Reading ± ((2% of reading +1 count) Setting ± ((2% of setting +5 volts)	
CURRENT DISPLAY	0.05 to 9 .99 mA,10.0 to 40.0 mA, LED Display Accuracy - Reading ± ((2% of reading +0.02 mA)	
DC OUTPUT RIPPLE	≤4% RMS (5 kVDC,40 mA)	
AC OUTPUT WAVE FORM	Sine wave, Distortion: ≤1%	
AC OUTPUT FREQUENCY	50 or 60 Hz ± 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 $\pm$ 01 seconds.	
RAMP TIMER	0 - 99 seconds in 1 second increments accuracy $\pm$ 0.1 seconds.	

INSULATION RESISTANCE TEST MODE		
OUTPUT VOLTAGE RANGE	200 -1000 Volts, 1 volt/step	
VOLTAGE METERING	3 Digits,0.00 -1 .00 kV Accuracy ± ((2%of reading + 1 count)	
RESISTANCE METERING	3 Digits, 9.99 G $\Omega$ Full Scale Accuracy $\pm$ ((2%of reading + 1 count)	
LIMIT RANGES	HI - Limit range -0 -9999 M $\Omega$ LO - Limit range -0 -9999 M $\Omega$	
DWELL TIMER	1 - 999 seconds in 1 second increments Accuracy ± 0.1 seconds	

GROUND BOND TEST MODE		
OUTPUT VOLTAGE	Adjustable (5.0 to 12.0 volts AC, 0.1 volt/step) Setting Accuracy - ± (2%of setting +0 .1 volt)	
OUTPUT FREQUENCY	50 or 60 Hz, User Selectable	
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OUTPUT CURRENT	Adjustable (10.0 to 30.0 amps,0 .1 amp/step)
CURRENT DISPLAY	3 digits,30.0 amps full scale, LED Display Accuracy ± (2% of reading + 1 count)
TRIP RANGE	1 to $600 \text{ m}\Omega$
DWELL TIMER	1 -999 seconds in I second increments or continuous. Accuracy $\pm$ 0.1 seconds.