

Models 6550 & 6555

Expert tools for testing insulation safely and accurately; ideal for use on rotating machinery and cables operating at higher voltages



► FEATURES

- True Megohmmeter®
- Fixed or programmable test voltage from 40V to 10kV/15kV
- Wide measurement range from 10kΩ to 30TΩ
- 5mA charging current
- Step voltage testing
- Ramp voltage testing
- Automatic calculation of DAR / PI / DD / ΔR (ppm/V) ratios
- Large, backlit graphical LCD screen with digital display, bargraph and R(t)+V(t), I(t) and I(V) graphs
- Multiple test modes: voltage ramp and step with “Burn-In”, “Early-Break” and “I-Limit” modes
- Three filter settings to optimize measurement stability
- Calculation of R at a reference temperature
- Storage of 80,000 measurements
- Includes DataView® software for data storage, real-time display, analysis and report generation
- Optically-isolated USB communication for transfer onto PC and report generation with DataView® software

► SPECIFICATIONS

MODELS	6550	6555
INSULATION TESTS		
Test Voltage	500V 1000V 2500V 5000V 10,000V 15,000V	10kΩ to 2000GΩ (2TΩ) 10kΩ to 4000GΩ (4TΩ) 10kΩ to 10,000GΩ (10TΩ) 10kΩ to 15,000GΩ (15TΩ) 10kΩ to 25,000GΩ (25TΩ)
Fixed Test Voltages	500/1000/2500/5000/ 10,000V	500/1000/2500/5000/ 10,000/15,000V
Variable Voltages	Variable: 40 to 10kV Three user programmable voltage schemes	Variable: 40 to 15kV Three user programmable voltage schemes
Ramp Mode	Programmable ramps: start voltage/end voltage/duration	
Ramp Configuration Range	40 to 1100V/500 to 10,000V	40 to 1100V/500 to 15,000V
Step Mode	Up to 10 steps (voltage and duration configurable for each step)	
Voltage Measurement After Test	0 to 2500V _{AC} ; 0 to 4000V _{DC}	
Capacitance Measurement	0.05 to 9.999μF/10.00 to 49.99μF	
Leakage Current Measurement	0 to 8mA	
Discharge After Test	Yes/Automatic	
Additional Test Stop Modes	I-Limit Early-Break Timer	Programmable: 0.2 to 5mA di/dt Up to 99 minutes 59 seconds
Burn Mode	Constant testing	
Ratio Calculation	PI, DAR, DD	
Calculation of R at ref. T°	Yes	
Measurement Display Filter	3 filters with 3 possible time-constants	
Graphs on Display	R(t)+V(t); I(t); I(V)	
Storage	256 registers, stores 80,000 points: R, V, I and date	
Communication	USB optically-isolated port	
PC Software	DataView®	
Power Supply	NiMH rechargeable batteries, two 9.6V 4Ah battery packs charging by external voltage: 90 to 260V; 50/60Hz	
Battery Charging	Battery charging allowed while performing insulation measurements	
Electrical Safety	1000V CAT IV; IEC61010-1 and IEC 61557	
EMC, Mechanical Protection, Altitude	EN 61326-1, IP54, 3000m	
Dimensions / Weight	13.39 x 11.81 x 7.87" (340 x 300 x 200mm)/approx. 6.2kg (13.7lb)	

► PRODUCT INCLUDES



► **USB Stick**
Quick start user guide, and USB stick supplied with DataView® software and user manual.



Small classic tool bag, set of color-coded (red/blue/black) 9 ft (15kV) integral leads and alligator clips (1000V CAT IV), one 15kV jumper lead (blue), set of two color-coded test probes (red/black-1000V CAT IV), optical USB cable, 115V US power cord, 9.6V rechargeable NiMH batteries.