# **MEGOHMMETERS** 10,000 & 15,000 Digital

## Models 6550 & 6555



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

#### **► SPECIFICATIONS**

MODELS   MODELS   MODELS			
Test Voltage	MODELS	6550	6555
1060V   2500V   10kΩ to 10,000GΩ (4TΩ)   2500V   10kΩ to 10,000GΩ (10TΩ)   10,000V   10kΩ to 15,000GΩ (15TΩ)   10,000V   10kΩ to 25,000GΩ (25TΩ)   15,000V   10kΩ to 25,000GΩ (25TΩ)   15,000V   10,000V	INSULATION TESTS		
Fixed Test Voltages  500/1000/2500/5000/ 10,000V  Variable Voltages  Variable: 40V to 10kV 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  O to 2500Vac; O to 4000Vbc  Capacitance Measurement  Discharge After Test  Additional Test Stop Modes  I-Limit Early-Break Timer  Up to 99 minutes 59 seconds  Burn Mode  Ratio Calculation  Pl, DAR, DD  Calculation of R at ref. T°  Measurement Display Filter  Graphs on Display  Storage  256 registers, stores 80,000 points: R, V, I and date  Communication  PC Software  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  EIEctrical Safety  13.39 x 11.81 x 7.87" (340 x 300 x 200mm)/approx. 6.2kg  Dimensions/Weight  13.39 x 11.81 x 7.87" (340 x 300 x 200mm)/approx. 6.2kg	1000V 2500V 5000V	10kΩ to 4000GΩ (4TΩ) 10kΩ to 10,000GΩ (10TΩ) 10kΩ to 15,000GΩ (15TΩ)	
Variable Voltages  Variable: 40V to 10kV Three user programmable voltage schemes  Voltoge schemes  Voltoge schemes  Voltoge schemes  Voltoge schemes  Voltoge schemes  Voltoovoor  Ves/Automatic  Ves/Automatic  Ves/Automatic  Ves/Automatic  Ves/Automatic  Ves/Automatic  Ves/Automatic  Ves/Ves/Automatic  Ves/Ves/Automatic  Ves/Automatic  Ves/Ves/Automatic  Ves/Ves/Ves/Ves/Ves/Ves/	15,000V	_	$10k\Omega$ to $30,000G\Omega$ ( $30T\Omega$ )
Three user programmable voltage schemes  Ramp Mode 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 Capacitance Measurement Leakage Current Measurement Discharge After Test Additional Test Stop Modes  I-Limit Early-Break Timer  Programmable: 0.2 to 5mA  di/dt  Three user programmable voltage end voltage/duration 40 to 1100V/500 to 15,000V 5 makesurement 40 to 250 makesurement 40 to 4000Vbc 40 to 1100V/500 to 400Vbc 40 to 4000Vbc 40 to 400Vbc 40 to 4000Vbc 40 to 4000Vbc 40 to 4000Vbc 40 to 4000Vbc 40 t	Fixed Test Voltages		
Ramp Configuration Range40 to 1100V/500 to 10,000V40 to 1100V/500 to 15,000VStep ModeUp to 10 steps (voltage and duration configurable for each step)Voltage Measurement After Test0 to 2500Vac; 0 to 4000VpcCapacitance Measurement0.05 to 9.999μF/10.00 to 49.99μFLeakage Current Measurement0 to 8mADischarge After TestYes/AutomaticAdditional Test Stop ModesProgrammable: 0.2 to 5mAI-Limit Early-Break TimerProgrammable: 0.2 to 5mABurn ModeConstant testingRatio CalculationPI, DAR, DDCalculation of R at ref. T°YesMeasurement Display Filter3 filters with 3 possible time-constantsGraphs on DisplayR(t)+v(t); i(t); i(v)Storage256 registers, stores 80,000 points: R, V, I and dateCommunicationUSB optically-isolated portPC SoftwareDataView* softwarePower SupplyNiMH rechargeable batteries, two 9.6V 4Ah battery packs charging by external voltage: 90 to 260V; 50/60HzBattery ChargingBattery charging allowed while performing insulation measurementsElectrical Safety1000V CAT IV; IEC61010-1 and IEC 61557EMC, Mechanical Protection, AltitudeEN 61326-1, IP54, 3000mDimensions/Weight13.39 x 11.81 x 7.87" (340 x 300 x 200mm)/approx. 6.2kg	Variable Voltages	Three user programmable	Three user programmable
Step ModeUp to 10 steps (voltage and duration configurable for each step)Voltage Measurement After Test0 to 2500VAc; 0 to 4000VbcCapacitance Measurement0.05 to 9.999μF/10.00 to 49.99μFLeakage Current Measurement0 to 8mADischarge After TestYes/AutomaticAdditional Test Stop ModesProgrammable: 0.2 to 5mAI-Limit Early-BreakProgrammable: 0.2 to 5mAModeConstant testingBurn ModeConstant testingRatio CalculationPI, DAR, DDCalculation of R at ref. T°YesMeasurement Display Filter3 filters with 3 possible time-constantsGraphs on DisplayR(t)+v(t); i(t); i(v)Storage256 registers, stores 80,000 points: R, V, I and dateCommunicationUSB optically-isolated portPC SoftwareDataView*softwarePower SupplyNiMH rechargeable batteries, two 9.6V 4Ah battery packs charging by external voltage: 90 to 260V; 50/60HzBattery ChargingBattery charging allowed while performing insulation measurementsElectrical Safety1000V CAT IV; IEC61010-1 and IEC 61557EMC, Mechanical Protection, AltitudeEN 61326-1, IP54, 3000mDimensions/Weight13.39 x 11.81 x 7.87" (340 x 300 x 200mm)/approx. 6.2kg	Ramp Mode	Programmable ramps: start voltage/end voltage/duration	
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Capacitance Measurement  Leakage Current Measurement  Discharge After Test  Additional Test Stop Modes  I-Limit Early-Break Timer  Burn Mode  Ratio Calculation  Calculation of R at ref. T° Measurement Display Filter  Graphs on Display  Storage  Communication  PC Software  Power Supply  Mechanical Protection, Altitude  Dimensions/Weight  Discharge After Test  O.05 to 9.999µF/10.00 to 49.99µF  0 to 8mA  Oto 8mA  Ves/Automatic  Oto 8mA  Pres/Automatic  Oto 8mA  Pres/Automatic  Oto 8mA  Pres/Automatic  Oto 8mA  Pres/Automatic  Programmable: 0.2 to 5mA  di/dt  Commanble: 0.2 to 5mA  di/dt  Programmable: 0.2 to 5mA  di/dt  Programmable: 0.2 to 5mA  di/dt  Programmable: 0.2 to 5mA  Early-Break  Altitude  Oto 8mA  Pres/Automatic  Programmable: 0.2 to 5mA  di/dt  Programmable: 0.2 to 5mA  d	Step Mode	Up to 10 steps (voltage and dur	ration configurable for each step)
Leakage Current Measurement  Discharge After Test  Additional Test Stop Modes    I-Limit Early-Break di/dt   Timer   Up to 99 minutes 59 seconds    Burn Mode   Constant testing	Voltage Measurement After Test	.,	
Discharge After Test Additional Test Stop Modes    I-Limit Early-Break di/dt	Capacitance Measurement	0.05 to 9.999μF/10.00 to 49.99μF	
Additional Test Stop Modes  I-Limit Early-Break di/dt Timer 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*software  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  Dimensions/Weight 13.39 x 11.81 x 7.87" (340 x 300 x 200mm)/approx. 6.2kg	Leakage Current Measurement	* ** *****	
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Early-Break Timer  Burn Mode  Ratio Calculation  Calculation of R at ref. T°  Measurement Display Filter  Graphs on Display  Storage  Communication  PC Software  Power Supply  Battery Charging  Battery Charging  Battery Charging  EICH POTE CAICULATION  Battery Charging  Battery Charging Allowed while performing insulation measurements  EICH CHARGA SOUND AND AND AND AND AND AND AND AND AND A		Programmable: 0.2 to 5mA	
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Ratio Calculation  PI, DAR, DD  Calculation of R at ref. T°  Wes  Measurement Display Filter  Graphs on Display  R(t)+v(t); i(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*software  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  Dimensions/Weight  13.39 x 11.81 x 7.87" (340 x 300 x 200mm)/approx. 6.2kg		·	
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Communication     USB optically-isolated port       PC Software     DataView'software       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		R(t)+v(t); i(t); i(v)	
PC Software  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  Dimensions/Weight  13.39 x 11.81 x 7.87" (340 x 300 x 200mm)/approx. 6.2kg	Storage	256 registers, stores 80,000 points: R, V, I and date	
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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	Power Supply		
EMC, Mechanical Protection, Altitude  EN 61326-1, IP54, 3000m  13.39 x 11.81 x 7.87" (340 x 300 x 200mm)/approx. 6.2kg	Battery Charging	Battery charging allowed while performing insulation measurements	
Altitude EN 61326-1, IP54, 3000III  Dimensions/Weight 13.39 x 11.81 x 7.87" (340 x 300 x 200mm)/approx. 6.2kg	<b>Electrical Safety</b>	1000V CAT IV; IEC61010-1 and IEC 61557	
		EN 61326-1, IP54, 3000m	
	Dimensions/Weight		









Read our technical tips about Insulation Resistance Testing

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DataView Software
Included with
Models 6550 & 6555





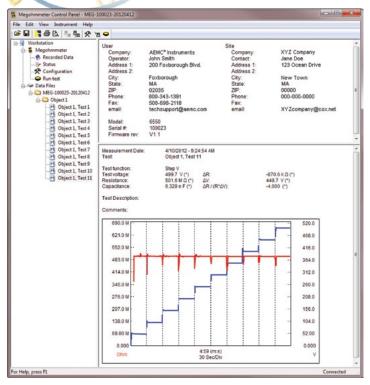
Includes one red, blue and black 9ft 15kV integral lead (blue), one red, blue and black alligator clip (1000V CAT IV), one red and blue test probe (1000V CAT IV), optical USB cable, US 115V power cord, small classic tool bag, user manual



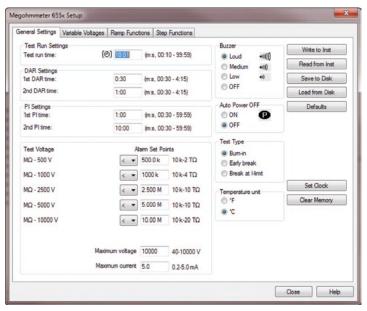
**▶ PRODUCT INCLUDES** 

### Models 6550 & 6555

# Data View Displays

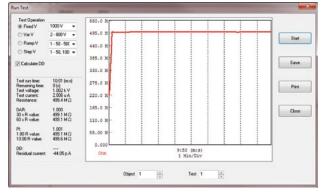


All stored test results presented on one screen.



#### **► FEATURES**

- Wide measurement range from  $10 \text{k}\Omega$  to  $30 \text{T}\Omega$
- Fixed or programmable test voltage from 40V to 10kV/15kV
- 5mA charging current
- Step voltage testing
- Ramp voltage testing
- Large, backlit graphical LCD screen with digital display, bargraph and R(t)+v(t), i(t) and i(v) graphs
- Automatic calculation of DAR / PI / DD /∆R (ppm/V) ratios
- Multiple test modes: voltage ramp and step with "burning", "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
- Optically-isolated USB communication for transfer onto PC and report generation with DataView<sup>a</sup> software



Real time display of measurement results.

Clear and straight forward set up of parameters.

CATALOG NO.	DESCRIPTION
2130.31	Megohmmeter Model 6550 (Graphical, Analog Bargraph, Backlight, Alarm, Timer, 500V, 1000V, 2500V, 10kV, Ramp, StepV, Variable, Auto DAR/PI/DD, USB w/DataView* software)
2130.32	Megohmmeter Model 6555 (Graphical, Analog Bargraph, Backlight, Alarm, Timer, 500V, 1000V, 2500V, 10kV, 15kV, Ramp, StepV, Variable, Auto DAR/PI/DD, USB w/DataView* software)

