

GROUND RESISTANCE TESTERS

MULTI-FUNCTION

MODELS 6422 & 6424

To keep your installation safe, measure the resistance of its connection to earth!



SPECIFICATIONS

MODELS	6422				6424			
ELECTRICAL								
Voltage								
Measurement Range	-				0.1-600VAc/dc			
Resolution	-				0.1V			
Accuracy	-				±(1%R + 1ct)			
Current								
Range	-				0.5-60.00Aac (requires optional MN72 probe)			
Ground Resistance (2P Mode)								
Measurement Range	0.05-99.99Ω, 80.0-999.9Ω, 0.800-9.999kΩ, 8.00-50.00kΩ							
Resolution	0.01Ω, 0.1Ω, 1Ω, 10Ω							
Accuracy	±(2%R + 10 ct), ±(2%R + 2 ct), ±(2%R + 1 ct), ±(2%R + 1 ct)							
Ground Resistance (3P Mode)								
Measurement Range	0.50-99.99Ω	80.0-999.9Ω	0.800-2.000kΩ	0.50-99.99Ω	80.0-999.9Ω	0.800-9.999kΩ	8.00-50.000kΩ	
Resolution	0.01Ω	0.1Ω	1Ω	0.01Ω	0.1Ω	1Ω	10Ω	
Accuracy	±(1%R + 10ct)	±(1%R + 2ct)	±(1%R + 1ct)	±(1%R + 10ct)	±(1%R + 2ct)	±(1%R + 1ct)		
Measurement Frequency	128Hz or 256Hz (automatically selected)							
No-load Voltage	±10 V peak							
Maximum Test Current	20mA							
Measurement Mode	One shot or continuous							
Data Storage	-				Stores the 52%, 62% and 72% 3P resistance measurements			
Calculation	-				Calculates average and % deviation of the three saved readings			
GENERAL								
Display	Backlit LCD							
Measurement Mode	2P (Ω), 3P (Ω)				V, I, 2P (Ω), 3P (Ω)			
Power Supply	(6) AA Alkaline batteries				(6) NiMH rechargeable batteries, charging time approx. 6 hrs			
Battery Life	> 2,000 x 3P earth measurements at 100 Ω				>1,500 x 3P earth measurements at 100 Ω			
Dimensions	8.78 x 4.96 x 2.75" (223 x 126 x 70mm)							
SAFETY								
Safety Rating	EMC: IEC 61326-1; IEC 61010-2-030 / 600 V CAT IV							

CATALOG NO.	DESCRIPTION
2135.55	Ground Resistance Tester Model 6422 (Digital, 3-Point)
2135.56	Ground Resistance Tester Model 6422 Kit-150 ft (Digital, 3-Point)
2135.57	Ground Resistance Tester Model 6424 (Digital, 3-Point)
2135.58	Ground Resistance Tester Model 6424 Kit-150 ft (Digital, 3-Point)
2135.59	Ground Resistance Tester Model 6424 Kit-300 ft (Digital, 3-Point)

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FEATURES

- Simple, one button operation - eliminates errors in testing
- Test button turns green when measurement is stable
- 2P resistance measurement up to 50k Ω
- 3P ground resistance measurement up to 2k Ω (Model 6422) up to 50k Ω (Model 6424) for highly resistive terrain
- Large back lit digital display – easier to read in all lighting conditions
- Automatic hold function - retains last measurement after the reading stabilizes ensuring the measurement is valid
- Automatic test frequency selection between 128 and 256 Hz, providing stable results in adverse environments
- Powers up in 2 pole mode – automatically checks the injector lead connection when connected to the H auxiliary rod
- Convenient storage of the three measurements along with the average and % deviation - easily determines proper test results
- Built in test lead compensation capability – improves the accuracy of low resistance measurements
- CAT IV 600V rated for a high level of operator safety
- Checks AC/DC voltage (Model 6424)
- Stores 52, 62 and 72% measurements – eliminates errors in determining the ground resistance (Model 6424)
- Leakage current measurement from 0.5mA to 60A (Model 6424)
- Battery recharging via AC adapter, USB or vehicle DC port (Model 6424)
- Color coded leads and terminals provide fast, error-free connection
- Detects the presence of hazardous voltage and prohibits measurement
- Direct access to all functions, even when wearing work gloves
- Rugged water resistance case, for all terrain use
- Built-in display stand to prop up instrument for seeing the display better when placed on the ground

ACCESSORIES/REPLACEMENTS

Catalog #2135.39

Ground Rod – Set of (2) 17" Stainless Steel T-shaped Auxiliary Ground Electrodes

Catalog #2153.06

MN72 AC Current Probe (6424 only)

CATALOG #5000.92
Calibration Checker



CATALOG #5000.92



CATALOG #2153.06



KITS AVAILABLE
SHOWN: CATALOG #2135.35

FUNCTIONAL DISPLAYS



2P mode used for continuity and bonding checks – is active when the instrument is turned on.

Model 6424



3P mode used for measuring the grounding system. The resistance of the injector electrode and the test voltage are also displayed.



Live voltage is displayed when the V/A function is selected and test leads are connected to AC or DC voltage. (Model 6424)



Leakage current is displayed when the optional MN72 probe is connected and the V/A function is selected. (Model 6424)

FRONT PANEL - 6424

