Model 7015 IN



15kV High Voltage Insulation Tester

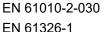


Accessories

Instruction manual
Test report.
Test leads (AL-30AG AL-30HB)
Alligator clip (AL-23CA)
H.V Line probe with (AL-58)
Data transmission cable (CA-232)
Charger (CHA-7015)
Compact disk(CD).

FeaturesProtectio

- Protection class: IP66 (Lid closed)
- Test Insulation Resistance up to 2 TΩ (2000GΩ).
- Short-circuit current up to 5mA.
- Microprocessor controlled.
- 30 insulation test voltages:
 500V, 1kV, 1.5kV, 2kV, 2.5kV, 3kV, 3.5kV, 4kV, 4.5kV,
 5kV, 5.5kV, 6kV, 6.5kV, 7kV, 7.5kV, 8kV, 8.5kV, 9kV,
 9.5kV, 10kV, 10.5kV, 11kV, 11.5kV, 12kV, 12.5kV, 13kV,
 13.5kV, 14kV, 14.5kV, 15kV
- AC/DC Voltmeter (600V).
- PI (Polarization Index) indication.
- DAR (Dielectric Absorption ratio) indication.
- Auto-ranging on all insulation ranges.
- Backlight function.
- Bargraph indicates test voltage, rise and decay can be observed.
- Menu driven.
- Visual and audible warning if external voltage is present. (≥30Vac or ≥30Vdc).
- Auto-hold function to freeze the reading.
- Overload protection.
- Adjustment for testing time (duration): 1~30 minutes.
- Auto-off.
- Calendar.
- Optical USB to RS-232 data transmission.
- 200 measurement results can be saved in the memory and recalled on the display.
- Safety standard: EN 61010-1 CAT IV 600V







Test report Instruction manual CD



AL-30AG AL-30HB AL-23CA



CHA-7015 CA-232 ISL-6237

Hoyt Electrical Instrument Works, Inc.

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AL-58

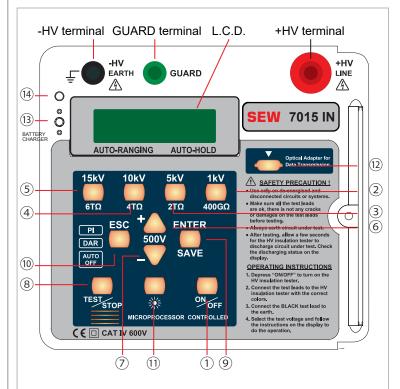
www.hoytmeter.com

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Instrument Layout

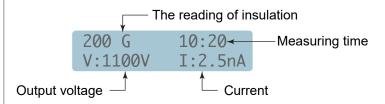


- (1) Power ON/OFF button
- (2) Insulation resistance test at 1kV button
- (3) Insulation resistance test at 5kV button
- (4) Insulation resistance test at 10kV button
- (5) Insulation resistance test at 15kV button
- (6) To add (+500V) button to the selected test voltage

- (7) To subtract (-500V) button to the selected test voltage
- (8) TEST/STOP button
- (9) ENTER & SAVE button
- (10) ESC button
- (11) BACKLIT button
- (12) CA-232 connection socket
- (13) Battery-charge socket
- (14) Charge indicator

Display

2 Lines x 16 characters, large intelligent LCD module.



15kV High Voltage Insulation Tester

Applications

For testing the insulation resistance of cables, motors, generators, transformers, insulators, high-pressure switches, wiring installations.....etc.

Special Functions

Voltmeter

Conventional insulation testers are highly susceptible to damage when testing insulation resistance while voltage is present on the measured object (whether ACV or DCV). To safely prevent damage, this new line of testers has the unique ability to sense voltage on a measured object. If any voltage is sensed, the tester will automatically switch to voltage detection mode and display the voltage finding on the LCD screen. This allows the user to prevent damage caused by attempting to measure insulation resistance while voltage is present.

DAR = Dielectric Absorption Ratio

The dielectric absorption ratio is the ratio of the insulation resistance measured at 1 min divided per the insulation resistance measured at 30 seconds. 30 seconds after starting a test, the tester will beep, indicating the operator that the resistance value measured at 30 seconds now has been saved internally. 1 minute after starting a test, the tester will beep again, indicating the user that the DAR result is now computed, and change the display format to now display the DAR result.

DAR : 1-min insulation resistance

30-sec insulation resistance

PI = Polarization Index

The polarization index or PI is the ratio of the insulation resistance measured at 10 minutes divided per the insulation resistance measured at 1 minute. 10 minutes after starting a test, the tester will beep again, indicating the user that the PI result is now computed, and change the display format to now display the PI result.

PI : 10-min insulation resistance

1-min insulation resistance

Tests on lower insulation resistance take longer, which tends to deteriorate the test specimen. Thus, higher DAR or PI readings (closer to 1) would indicate a better grade of insulation.

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15kV High Voltage Insulation Tester

Specifications

Test voltage	From 500Vdc to 15kVdc Adjustable in 500V steps	
Preset buttons	1kV, 5kV, 10kV, 15kV	
Insulation resistance	200GΩ / 0.5kV	
	200GΩ at 0.5kV ~ 6TΩ at 15kV	
Accuracy	1kV: 0~400GΩ	
	5kV: 0~1TΩ	±(5%rdg+5dgt)
	10kV: 0~1TΩ	
	15kV: 0~1TΩ	
	5kV: 1TΩ~2TΩ	
	10kV: 1TΩ~4TΩ	±15%
	15kV: 1TΩ~6TΩ	
Resolution	1GΩ : 0.001GΩ	
	10GΩ : 0.01GΩ	
	100GΩ : 0.1GΩ	
	1TΩ : 1GΩ	
	6TΩ : 10GΩ	
Short circuit current	up to 5mA	
PI (Polarization Index)	$\sqrt{}$	
DAR (Dielectric Absorption Ratio)	$\sqrt{}$	

ACV: 30~600V (50/60Hz) DCV: 30~600V Voltmeter Accuracy: ±(2.0%rdg+3dgt) Resolution: 1V Current 0.5nA ~ 0.55mA measurement (Depending on the insulation resistance) Power source Rechargeable battery Input: 100-240Vac, 0.4A, 50-60Hz Adapter Output: 24Vdc, 0.62A **Dimensions** 430(L) x 324(W) x 127(D)mm Approx: 6.56kg Weight

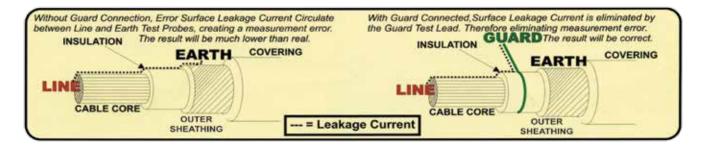
Data Communication Function

- Downloading saved data to a PC.
- Transferring and showing real-time data to a PC.
- 200 measurement results can be saved in the memory and recalled on the display.



Measure the insulation of cable





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