



- Protection class: IP66 (Lid closed)
- Test insulation resistance up to $20T\Omega$ ($20000G\Omega$).
- Short-circuit current up to 5mA
- Microprocessor controlled.
- 24 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

- AC/DC voltmeter (600V).
- PI (Polarization Index) indication.
- DAR (Dielectric Absorption ratio) indication.
- Auto-ranging on all insulation ranges.
- Backlight function.
- 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 IEC 61010-1 CAT IV 600V EN 61010-2-030 EN 61326-1
- Insulation test voltage up to 12kV.

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- Test Insulation Resistance up to $20 T\Omega$ (2000G Ω).
- Short circuit current up to 5mA.

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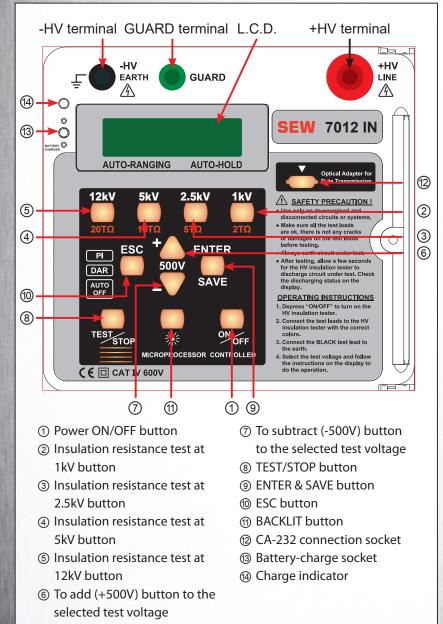
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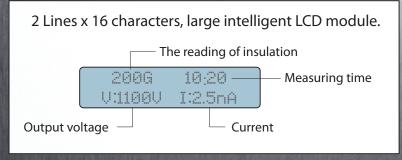
APPLICATIONS

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

Instrument Layout



Display



SPECIAL FUNCTIONS

Voltmeter

When testing insulation resistance while there is a presence of voltage (whether ACV or DCV) on the measured object, conventional insulation testers are highly susceptible to damage. With this new line of insulation testers, it has the ability to switch to voltage detection mode without damaging the instrument once it detects the presence of voltage. It will also display the voltage finding on the LCD screen. With this new and unique function, it will allow the user to safely rule out the possibility of any presence of voltage on the measured object prior to measuring its insulation.

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 : $\frac{1-\min \text{ insulation resistance}}{30-\text{sec insulation resistance}}$

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

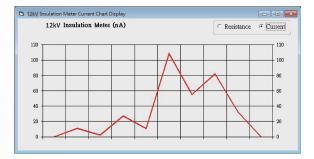
Lower insulation resistance tested takes longer test time, which would deteriorate the specimen. Thus, higher DAR or PI (as close to 1) would create better insulation grade of specimen.

SPECIFICATIONS

Test voltage	From 500Vdc to 12kVdc Adjustable in 500V steps			
Preset buttons	1kV, 2.5kV, 5kV, 12kV			
Insulation resistance	1TΩ/0.5kV 1TΩ at 0.5kV ~ 20TΩ at 10kV to 12kV			
Accuracy	1kV: 0~200GΩ 2.5kV: 0~500GΩ 5kV: 0~1TΩ 10kV~12kV: 0~2TΩ			
Accuracy	1kV: 200GΩ~2TΩ 2.5kV: 500GΩ~5TΩ 5kV: 1TΩ~10TΩ 10kV~12kV: 2TΩ~20TΩ	±20%		
Resolution	1GΩ : 0.001GΩ 10GΩ : 0.01GΩ 100GΩ : 0.1GΩ 1TΩ : 1GΩ 10TΩ : 10GΩ 20TΩ : 100GΩ			
Short circuit current	up to 5mA			
PI (Polarization Index)	\checkmark			
DAR (Dielectric Absorption Ratio)	\checkmark			
Voltmeter	ACV : 30~600V (50/60Hz) DCV : 30~600V Accuracy : ±(2.0%rdg+3dgt) Resolution : 1V			
Current measurement	0.5nA ~ 0.55mA (Depending on the insulation resistance)			
Power source	Rechargeable battery			
Adapter	Input : 100-240Vac, 0.4A, 50-60Hz Output : 24Vdc, 0.62A			
Dimensions	430(L) x 324(W) x 127(D)mm			
Weight	Approx : 6.56kg			
Accessories	Instruction manual Test leads (AL-58HV, AL-30AG,AL-30H B HV) Data transmission cable CA-232 Software for PC interface Alligator clip (AL-23CA) Charger (CHA-7015) Test report			

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.

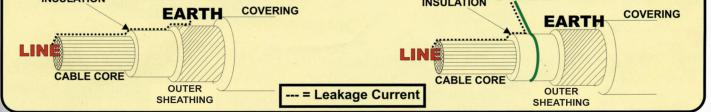




Measure the insulation of cable

SEW





Accessories



A complete set of accessories : H.V test leads (AL-30AG AL-30H B HV), Alligator clip (AL-23CA).H.V Line probe with (AL-58HV), Data transmission cable (CA-232), Charger (CHA-7015), Software for PC interface, Instruction manual, Test report.

STANDARD ELECTRIC WORKS CO., LTD. www.sew.com.tw 5F., NO.105, JHONGCHENG RD., TUCHENG DIST., NEW TAIPEI CITY 23674, TAIWAN (R.O.C.) TEL: 886-2-22681528 FAX: 886-2-22681529 e-mail: sales@sew.com.tw

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