ACA LEAKAGE TESTER

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1. FEATURES

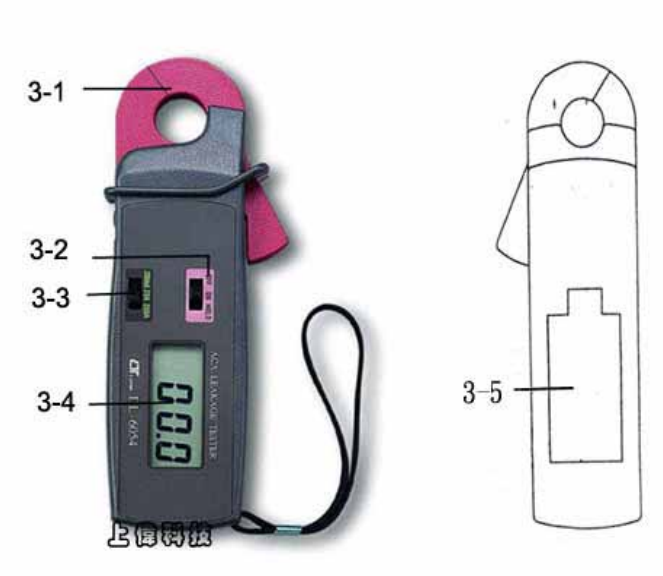
* High precision AC mA measurement, it is useful for AC mA leakage current measurement.
* Measure AC mA on the inductive conductor.
* Miniature type, easy to carry out & operation.
* High precision for low ACA leakage current measurement.
* Built-in DATA HOLD function.
* Crystal time base, high quality.
* LCD display allows clear readout-out even at high ambient light level.
* LSI circuit provides high reliability and durability.
* Overload protection circuit is provided for all range.
* Design to meet IEC 1010 safety requirement.
* Compact, light weight and excellent operation.

2. SPECIFICATIONS

Display	13 mm (0.5") LCD, 3 1/2 digits. Max. indication 1999.
Measurement & Resolution	200 AC mA x 0.1 mA 20 ACA x 0.01 A 200 ACA x 0.1 A
Data Hold	Available to hold the measuring values on the display.
Accuracy	(1.2 % + 5 d)
(23 5 蚓)	** Specification be tested on sine wave 50, 60 Hz.*
Time Base	Quartz crystal, 32768 Hz.
Overload Circuit Protection	300 ACA max. (within 1 minute for 20A, 200A range).
Zero adjustment	Automatic adjustment.
Over input	Display shows '1'.
Sampling Time	Approx. 0.4 second.

Operating Temp.	0 蚓 to 50 蚓 (32 蚌 to 122 蚌).	
Operating Humidity	Less than 80% RH.	
Battery	006P DC 9V battery.	
Power Consumption	Approx. DC 1.2 mA.	
Weight	200 g/0.44 LB (including battery).	
Dimension	HWD 180 x 47 x 35 mm. 7.1 x 1.9 x 1.4 inch.	
Conductor Size	19 mm Dia.	
Accessories Included	Operation manual.....	1 PC.
	Carrying case.....	1 PC.

3. FRONT PANEL DESCRIPTION



Fig, 1

3-1 Current Sense Jaw
3-2 Off/On/Hold Switch
3-3 200 mA/20 A/200 A Switch
3-4 Display
3-5 Battery Compartment

4. PRECAUTIONS & PREPARATIONS FOR MEASUREMENT

1) Ensure that the DC 9V battery is connected correctly to its snap terminal and placed in the battery compartment.
2) When apply the " DATA HOLD " function, slide the " Off/On/Hold Switch " (3-2, Fig. 1) to the " Hold " position. Otherwise it is necessary to slide the " Off/On/Hold switch " to " On " position always.
3) Do not measure current over the maximum limit.
4) Always select the " Power On/Off/Hold " switch to the " Off " position when the instrument does not use. Remove the battery if the instrument is not to be used for a long period of time.

5. MEASURING PROCEDURE

5-1 AC mA Leakage Current Measurement

1) Select the " Power On/Off/Hold switch " (3-2, Fig.1) to the " On " position.
2) Select the " 200mA/20A/200A Switch " (3-3, Fig. 1) to the " 200 mA " position.
3) Press the trigger to open the "Current Sense Jaw" (3-1, Fig. 1). & clamp on the measured conductor only.
4) Read AC mA leakage current on the display directly.

5-2 20A, 200A AC Current Measurement

1) Select the " Power On/Off/Hold switch " (3-2, Fig. 1) to the " On " position.
2) Determine the highest anticipated current (200 A, 20 A) on the " 20 A/200 A Switch " (3-3, Fig. 1) and select to the corresponding position.
3) Press the trigger to open the " Current Sense Jaw " (3-1, Fig. 1) & clamp on the measured conductor only.
4) Read ACA values on the display directly.

5-3 Data Hold

When make any measurement, if select the " On/Off/Hold Switch " (3-5, Fig. 1) to the " Hold " position will keep the data on the display. It will release the data hold function if select the " On/Off/Hold Switch " to the " On " position again.

6. REPLACEMENT OF BATTERY

1) When the left corner of LCD display show "LOBAT", it indicate a normal battery output that less than 6.5 V - 7.5 V and it is necessary to replace the battery. However in-spec measurement may still be made for several hours after low battery indicator appears before the instrument become inaccurate.
2) Open the " Battery Cover " (3-5. Fig 1), use the " - " type screw driver or small coin to open the battery cover away from the instrument and remove the battery.
3) Replace with 9V battery and reinstate the cover.