

Digital M-Ohm Tester 3587



Suitable for insulation resistance measurement of
lithium ion secondary battery

The test voltage value can be freely set with 1V resolution

The test voltage of the digital $M\Omega$ tester 3587, for the wide range of 25V~1000V, in order to set in units of 1V, can correspond to inspection standard voltage of firstly the lithium ion batteries that require a wide variety of test voltage values, various parts and products. Besides, highly reliable test can be performed because it has a connection check function that can confirm that the test object is connected to 3587.

Contributing to shortening tact time by increasing response speed!!

- High speed sampling : 60 times/sec (at 60Hz), 50 times/sec (at 50Hz)
- Response speed : About 50ms (When fixed range)
(Judgment time) About 200ms (When auto range)
- Test voltage setting : DC 25 V to 1000 V (1V resolution) Setting
- Resistance range : 2/20/200/2000 $M\Omega$
- Connection check function : Prevent erroneous judgment due to contact failure
- Small size, Light weight : W205 x H64 x D169mm About 1kg (Main body)

■ Model

3587 -□

①

① Data output

Symbol	Specifications
X	RS-232C (standard)
04	BCD (open collector) + RS-232C

■ Measurement range

Test Voltage	Resistance range	Accuracy		
		± (2% of rdg. + 3digit.)	±5% of rdg.	±30% of rdg.
DC 25 to 99 V	2.000 MΩ	0.000 to 2.000 MΩ	—	2.010 to 4.990 MΩ
	20.00 MΩ	1.80 to 20.00 MΩ	—	20.10 to 49.90 MΩ
	200.0 MΩ	18.0 to 100.0 MΩ	100.1 to 200.0 MΩ	201.0 to 999.0 MΩ
DC 100 to 499 V	2.000 MΩ	0.000 to 2.000 MΩ	—	2.010 to 4.990 MΩ
	20.00 MΩ	1.80 to 20.00 MΩ	—	20.10 to 49.90 MΩ
	200.0 MΩ	18.0 to 100.0 MΩ	100.1 to 200.0 MΩ	201.0 to 499.0 MΩ
DC 500 to 1000 V	2000 MΩ	—	180 to 2000 MΩ	2010 to 9990 MΩ
	20.00 MΩ	0.00 to 20.00 MΩ	—	20.10 to 49.90 MΩ
	200.0 MΩ	18.0 to 200.0 MΩ	—	201.0 to 499.0 MΩ
	2000 MΩ	180 to 1000 MΩ	1001 to 2000 MΩ	2010 to 9990 MΩ

■ General specifications

Output volt.	: DC 25 to 1050 V 1V resolution During terminal release: ±(1% of "setting voltage" + 5V)
Rated current	: Above 1 mA
Short current	: Below 1.5 mA
Display	: Measurement value display 0~9990 2.7 inch organic EL (OLED) green
Sampling period	: FAST: frequency setting During 50 Hz 50 times/s 60 Hz 60 times/s SLOW: 10 times/s
Response speed	: During fixed range Display response and judgment time About 0.05s During auto-range Display response and judgment time About 0.2s
Parameter saving	: Storage and retention of parameter by EEPROM Retention time About 10 years
Insulation res.	: Terminal bundle/between the outer box DC500V, More than 100MΩ
Withstand volt.	: Power supply Terminal/between the outer box AC 2000 V 1min Terminal bundle/ measurement terminal, between control input and output terminals AC 1500 V 1min
Power supply	: AC 100 to 240 V 50 / 60 Hz
Power allowance range	: AC 90 to 250 V
Power consumption	: About 20 VA (During AC 100 V)
Op. temp	: 0 to 50°C Below 90% RH (Non-condensing)
Storage temp	: -20 to 70°C Below 70% RH (Non-condensing)
Weight	: About 1 kg
Accessories	: Power cord 1 pc., Fuse 1 pc. Instruction manual 1 no.
Accessories (Sold separately)	: Earthing probe, line probe Line probe with switch Utility software

■ Standard features

● Program memory function

Measurement voltage of 10 patterns, resistance range, upper and lower limit.

The measurement conditions of timer, mask timer etc. can be done by the memory.

● Comparator function

Method	: Upper and lower limit, digital comparator
Display	: 0 to 9999 green OLED (height 7.6 mm)
Range	: 0 to 9999 fraction setting allowed
Conditions	: Lower limit value ≥ display value ······ LOW NG Upper limit value > display value ······ GOOD Lower limit value < display value ······ GOOD Upper limit value ≤ display value ······ HIGH NG
Judgment disp.	: HIGH (red) / GOOD (green) / LOW (red)

Judgment output : Open collector output (standard)
Sink type DC 30V, 30 mA max.

Judgment buzzer : Electronic buzzer, NG / GOOD switching
With volume setting and buzzer OFF function

● Timer function (test time and delay time setting)

Timer : 0.2~99.9s
Mask time : 0.1~99.9s and OFF

● Connection check function

During the start of the test, connection check is done just before timer operation.

From the start to the end of the test (Period when TEST is ON) monitoring of every sampling is done. (Check time: 10ms)

● Switch lock function

The switch operation of front panel is prohibited.

● Power frequency setting

Power frequency is set to 50 Hz or 60 Hz with key operation.

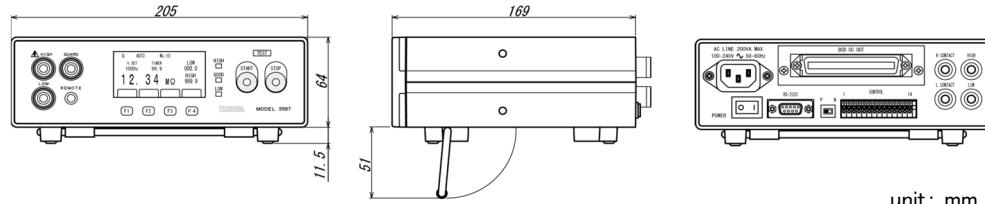
● Automatic discharge function

Electric charges charged in the test piece is discharged.

● Measurement mode

Manual operation : AUTO mode, CONTINUE mode
Remote operation : Remote 1, Remote2

■ External dimensions



unit: mm

TSURUGA

TSURUGA ELECTRIC CORPORATION

Overseas Trade Department

1-3-23 Minami Sumiyoshi, Sumiyoshi, Osaka, Japan 558-0041

Tel: +81-(0)6-6692-7001 Fax: +81-(0)6-6692-7004

Home page: <http://www.tsuruga.co.jp>

Factory : Osaka and Shiga

Sale Office : Osaka, Nagoya, Tokyo, Yokohama