

# 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 MΩ 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 MΩ
- 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 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
	2000 MΩ	—	180 to 2000 MΩ	2010 to 9990 MΩ
DC 500 to 1000 V	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

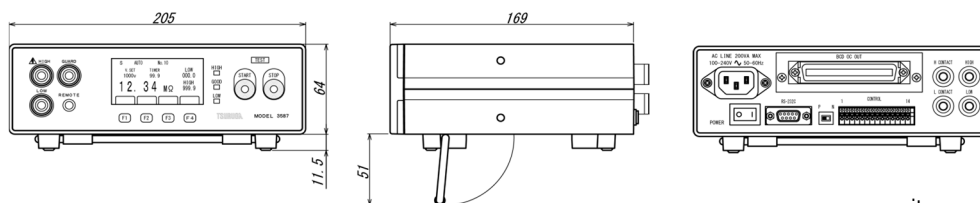
■ General specifications

- 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



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