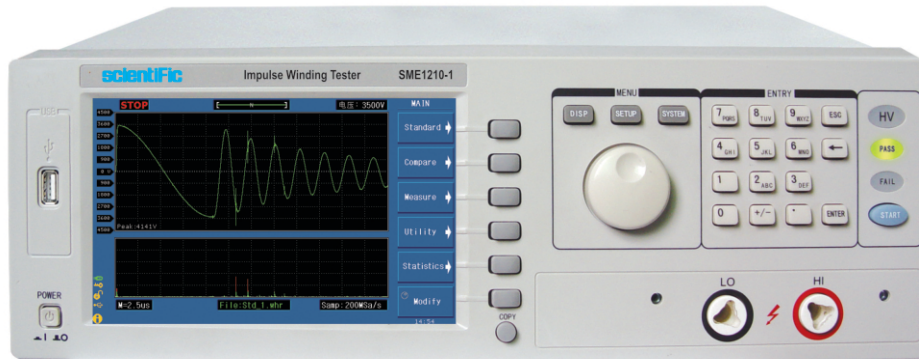


Impulse Winding Tester

SME1201-1, SME1205-1/4/8, SME1210-1

scientific[®]
Since 1963



Features

- Impulse voltage of -100V to -10kV, single / four channel
- Individual channel can be program and control
- Minimum inductance test value of winding: 10 μ H
- Up to 200MSa/s waveform sampling rate
- Maximum measuring speed: 6meas/sec
- Storage depth of 6k Bytes
- High bandwidth analog acquisition circuit
- High-fidelity corona extraction algorithm
- Four waveform comparison methods
- Automatic storage of instrument parameters
- Measurements on voltage, time and frequency
- Amplification, stretch and movement of the waveform for accurate display
- Multi-sample average, average processing of 32 standard waveforms
- Use demagnetized impulse to ensure the conformity of tested waveforms
- 20 groups of instrument files storage and retrieval
- Screen information storage in USB disk
- System firmware up gradation facility through USB-disk
- Foot control interface for easy measurements
- Handler interface to realize on-line operation
- 65k color 7" TFT wide display screen
- RS232C, USB Device and LAN interface to realize remote control.

The instrument uses 32 bit CPU and high density SMD technology, 65k color 7-inch TFT wide display screen, bringing ease and convenience to operation. The impulse voltage of -100V to -10kV, winding test of 10 μ H inductance, sampling rate of 200MSa/s, memory depth of 6k bytes makes the tests accurately. The usage of standard sample average, application of demagnetized impulse, high bandwidth analog acquisition circuit, high-fidelity corona extraction and the opening of non-destructive test reflect the latest design technology.

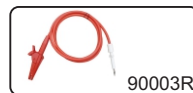
According to the output voltage there are 3 models : SME1201-1, SME1205-1 and SME1210-1. According to the Number of output channels there are two Models SME1205-4 and SME1205-8. The instruments are the ideal test product for inductance coils used by switching power supply. With impulse voltage of -100V to -5000V, SME1205-1 is a standard product for testing all kinds of coils. With maximum impulse output voltage of -10kV, SME1210-1 is appropriate for inter-turn test of higher insulation and voltage resistance.

Standard USB Host, RS232C, USB Device and LAN interface of these products are convenient for fast storage of graphs and remote control.

SME1201-1, SME1205-1/4/8, SME1210-1 Impulse Winding Tester

| Technical Specifications | SME1201-1 | SME1205-1 | SME1205-4 | SME1205-8 | SME1210-1 |
|--|---|------------------------------|-----------|-----------|---|
| No. of channels | 1 | 1 | 4 | 8 | 1 |
| Output Impulse Voltage | -30V to -1200V 5V steps | -100V to -5000V 10V Steps | | | -500V to -10kV 20V Steps |
| Voltage Accuracy | ± (5% of set value + 5V) | ± (5% of set value + 15V) | | | ± (5% of set value + 25V) |
| Read back Accuracy | ± (5% actual value + 5V) | ± (5% actual value + 15V) | | | ± (5% actual value + 25V) |
| Inductance Test Range | ≥ 1μH | ≥ 10μH | | | ≥ 20μH |
| Impulse Energy | Max : 0.02 Joule | Max : 0.25 Joule | | | Max : 0.5 Joule |
| Test Speed | 6 meas/ second | 6 meas/ second | | | 3 meas/ second (when 10kV impulse voltage is output) |
| Pulses Applied | Max : 32 | | | | |
| Input Impedance | 5 MΩ | | | | |
| Waveform Acquisition | Sampling Rate Max 200 MSa/s, 8 levels adjustable Resolution 8 Bits Memory Depth 6k Bytes Average : 1 to 32 | | | | |
| Comparison Mode | Area size comparison, Differential area comparison, Corona discharge comparison, Differential phase comparison | | | | |
| Waveform Measurement | Voltage, Time, Frequency | | | | |
| Trigger Mode | Internal/ Manual (foot)/ External/ BUS | | | | |
| Detection Output | PASS/ FAIL display /LED/Alarm | | | | |
| Measurement Statistics | Statistics for Measurement Results | | | | |
| Memory | 20 groups of standard waveform data & instrument setup can be stored in internal non-volatile memory USB flash memory can be used as external memory | | | | |
| Interface | HANDLER, RS232C, USB Device, USB Host, LAN | | | | |
| General Information | | | | | |
| Display | 800X480 Dots, 65k color TFT, Waveform Display Range : 600x256 | | | | |
| Safety and electromagnetic compatibility | IEC61010-1:2001, IEC61326-2-1:2005 | | | | |
| Supply | 220V ± 10 %, 50/60Hz ± 5% | | | | |
| Power consumption | ≤ 200VA | | | | |
| Operating Conditions | 0°C – 40°C, ≤ 75% RH | | | | |
| Dimensions | W : 400mm, H : 132mm, D: 390mm | | | | |
| Weight | 7.2 kg (Approx.) | | | | |
| Standard Accessories | Mains Cord, High-voltage Test Clip Leads (SMA26035), 90003R (with Multi Channel Models), Foot Switch (SMA2881-001), USB Cable, CD | | | | |

Subject to change



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