Compactness, Light Weight
Achievement of Cost Performance and Rich function

Withstand Voltage and Insulation Tester
Model 8525

- Withstand Voltage Tester
  - AC5kV
  - 500VA

- MΩ Meter
  - DC500V
  - DC1000V
  - 20.00MΩ to 2000MΩ

- I/O Control
  - External Output
  - Status Output

- Data Output
  - RS-232C
  - Withstand voltage test V monitoring Output
Continuous or Individual Withstand Voltage and Insulation Test

Outline

The model 8525 is an automatic continuous tester of withstand voltage and insulation. High reliable test enabling proper test result management and analysis can be conducted with RS-232C output equipped as standard specification in tester.

Typical Application:
Motor and Generator, spark plugs, Capacitors, connectors etc. aviation components, transformers, wire and cables, coils and chokes, switches and relays.

Characteristics

- Very good corresponding to various tests based on the safety standards of electrical appliance.
- Safety-oriented design : Interlock etc.
- Memory function having capable of storing 9 types.
- Available with status output which displays test conditions and test results.
- Large LED to display test conditions and measured values
- RS-232C for obtaining test condition and results

Specification

- Withstand voltage test
  - Output voltage : AC 0 to 2.5kV/0 to 5kV (500VA)
  - Setting of upper limit leakage current : 0.1 to 110.0mA
  - Judgment method : Upper and lower limit comparator
- Insulation resistance test
  - Test voltage : DC 500V/1000V
  - Measurement Range : 0.1 to 2000MΩ
  - Judgment method : Upper and lower comparator
- Output : Status signal, RS-232C, Voltage monitor

Option

- Voltages of Insulation tester are available on DC 25V/50V/100V/ and 250V too.
- Power supply voltage: 115V/ 200V/ 220V/ 240V
Test Result Output by ON/OFF Signal or RS-232C

**Back Panel**

- **Power supply connector**: AC 100V, AC 115V, 200V, 220V, 240V
- **RC-232C Output**: Output of test condition setting and test result.
- **Test Voltage Output Terminal**: Common to front panel output terminal.
- **Remote I/O terminal**: External control terminal for start, stop, and rear-on.
- **Monitor Output Voltage**: (DC 0 to 5V) of Withstand Voltage Test.

### Status Output

<table>
<thead>
<tr>
<th>Output Name</th>
<th>Output cond.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEST/H.V.OUT</td>
<td>Test voltage output</td>
</tr>
<tr>
<td>TEST</td>
<td>Under test</td>
</tr>
<tr>
<td>GOOD</td>
<td>Good judgement</td>
</tr>
<tr>
<td>NG</td>
<td>Bad judgement</td>
</tr>
<tr>
<td>POWER ON</td>
<td>Power On</td>
</tr>
<tr>
<td>READY</td>
<td>During Ready</td>
</tr>
<tr>
<td>REMOTE</td>
<td>Remote Operation</td>
</tr>
</tbody>
</table>

Depending on selection of output, relay contact output is available (Multiple selection is possible (OR Cond.).

### Outline Drawing

Rack installation panel: 5871-03-014 (Option)

Power supply cord

Unit: mm
## Basic Specifications

<table>
<thead>
<tr>
<th>Model &amp; Output</th>
<th>8525: RS-232C and 0 to 5V DC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement voltage</td>
<td>AC 0 to 2.5KV, 0 to 5.0KV, 2 ranges</td>
</tr>
<tr>
<td>Accuracy of voltage</td>
<td>±1.5 % of F.S.</td>
</tr>
<tr>
<td>Measurement current</td>
<td>From 0.01mA to 199.9mA, 2 ranges</td>
</tr>
<tr>
<td>Accuracy of current</td>
<td>± (5 % + 20µA) for high setting value</td>
</tr>
<tr>
<td>Setting time</td>
<td>0.5 to 999 s (with timer OFF function)</td>
</tr>
<tr>
<td>Measuring insulation</td>
<td>DC500V and 1000V, 2 ranges (Available 25/50/100/250V)</td>
</tr>
</tbody>
</table>
| Accuracy of insulation | ±2 % of rdg. +3digit at 0 to 200.0 M-ohm  
±5 % of rdg. +3digit at 180 to 2000 M-ohm |
| Setting time | 0.5 to 999 s (with timer OFF function, Min.mask time +0.2s) |
| Mask time | 0.3 to 50.0s (Max.test time –0.2s) |
| Accuracy of mask time | ±20ms up to 99.9s, ±200ms up to 999s |
| Power supply | 90 to 110V AC, 50/60HZ (Available 115/200/220/240V) |
| Weight | Approx. 15 kg (20.5kg for optional power supply) |
| Dimensions | 320 (W) x 150 (H) x 330 (D) mm |
| Accessories | 2m High-voltage cable(1), 3m Earth wire(1), 2.5m Power cord(1), Remote I/O plug(1), Fuse(1) |

---

**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

**TSURUGA ELECTRIC CORPORATION**  
Factory: Osaka and Shiga  
Sale Offices: Osaka, Nagoya, Tokyo, Yokohama