Highly-stable output with PWM Amp System
5 kV/100 mA (500 VA) AC Hipot test
Short-circuit current 200 mA or more
Rise time/Fall time control
Equipped with RS232C and USB Interface
An ideal AC Hipot Tester with ownership realized, built on 50 years of experience!

Rise/Fall Time control function of the applied voltage

Equipped with a Rise time/ Fall time control function
Prevents from an excessive stress applied to the EUT or for standard tests.

Highly stable output

Newly developed, high-efficiency PWM switching amplifier!
Providing a stable output of high voltage without being affected by AC line variation. Ensure the user to perform highly reliable testing with confidence, even in regions with large voltage variations. (Input voltage fluctuation rate: ±0.3 %)

Pursuing usability and safety

All new smart design of control panel and output terminals!
Eliminates the projected components of output terminals, and equips with a new type of the LOW terminal. Pursuing the improvement of safety and a convenience in production line, such as providing the protection cover for the front panel.

Reducing the tact time

Increasing the productivity!
Capable of setting the test time from 0.1 s
AC Hipot Tester | TOS5200

TOS5200 is designed for AC Hipot Test with 500 VA capacity and 200 mA short circuit current output capability. Equipped with the PWM amplifier, the TOS5200 can provide a stable & reliable output without being affected by AC power line. Therefore, it is a perfect solution for electronic equipment or devices complied to IEC, EN, UL, VDE and JIS etc. requirement. As TOS5200 covers most of features of our upper class model for AC Hipot Test, it achieves the superb cost / performance ratio for those who need 200 VA or 500 VA capacity, or both. Also, as it equips the Interlock function together with other safety features, operator can carry out the test with higher current value in safe.
The TOS5200 has many improvements from the predecessor!

Comparison with the Kikusui previous model

<table>
<thead>
<tr>
<th>Specification comparison item</th>
<th>TOS5200</th>
<th>TOS5050A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test voltage</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output method</td>
<td>PWM switching amp system</td>
<td>Slide transformer method</td>
</tr>
<tr>
<td>Distortion</td>
<td>3 % or less</td>
<td>As per commercial power supply waveform</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 Hz or 60 Hz</td>
<td>Synchronized with commercial power supply waveform</td>
</tr>
<tr>
<td>Output voltage waveform</td>
<td>Sine</td>
<td>Commercial power supply waveform</td>
</tr>
<tr>
<td>Voltage regulation</td>
<td>10 % or less</td>
<td>15 % or less</td>
</tr>
<tr>
<td>Input voltage variation</td>
<td>±5.3 %</td>
<td></td>
</tr>
<tr>
<td>Test time</td>
<td>0.1 s</td>
<td>0.5 s</td>
</tr>
<tr>
<td>Minimum setting value</td>
<td>±(100 ppm + 20 ms) excluding Fall Time</td>
<td>±(100 ppm + 20 ms)</td>
</tr>
<tr>
<td>Accuracy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper limit setting</td>
<td>AC: 0.01 mA to 110 mA</td>
<td>AC: 0.1 mA to 110 mA</td>
</tr>
<tr>
<td>Lower limit setting</td>
<td>AC: 0.01 mA to 110 mA</td>
<td>AC: 0.1 mA to 110 mA</td>
</tr>
<tr>
<td>Accuracy</td>
<td>1.00 mA ≤ i: ±(1.5 % of set), i &lt;1.00 mA: ±(1.5 % of set + 30 μA)</td>
<td>Upper limit: ±(5 % + 20 μA)</td>
</tr>
<tr>
<td>Rise Time and Fall Time control features</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Voltmeter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Display</td>
<td>Digital</td>
<td>Digital, analog</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>±1.5 % of reading (V&gt;500V)</td>
<td>±1.5 % f.s</td>
</tr>
<tr>
<td>Voltmeter/Ammeter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measurement method</td>
<td>True rms/mean-value</td>
<td>Mean-value/ms value</td>
</tr>
<tr>
<td>RS232C Interface</td>
<td>POWER Switch and all function except Key lock</td>
<td>Output for data, test result</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 14 kg (30.9 lbs)</td>
<td>Approx. 15 kg (33.07 lbs)</td>
</tr>
<tr>
<td>Other</td>
<td>100 Vac to 240 Vac</td>
<td>100 V ± 10 %</td>
</tr>
</tbody>
</table>

Highly stable output is realized with PWM Switching Amplifier!

Equipped with the PWM switching amplifier system, the TOS5200 realizes highly stable output without influenced by input form AC line.

A conventional Hipot Tester boosts and outputs the AC line's input voltage through the use of a slide transformer system. With this slide transformer system, input voltage fluctuations will affect the output, preventing test from being performed properly. Since the TOS5200 equips with a high-efficient PWM amplifier that can output a stable high-voltage without being affected by the variation of AC power line, users can perform "safe", "stable", and highly "reliable" tests with confidence, even in regions with large voltage variations.

High-Accuracy = Less measurement error! "+/-1.5 % of reading" versus "+/-1.5 % f.s."

TOS5200 ► reading: Accuracy is specified against reading value.
TOS5050A ► f.s: Accuracy is specified against full scale.

When using TOS5200 at 1500 V output measurement, the max error would be 1500 V(reading value) x 1.5 % = 22.5 V
On the other hand, when using equipment which specifies its accuracy with "+/- 1.5 % f.s.",
the max error could be 2500 V(max voltage) x 1.5 % =37.5 V (it needs to set the range 0 to 2.5 kV)
So, there is 15 V difference of max measurement error at 1500 V output.
Hipot (Withstanding Voltage) Tester TOS5200

Capable of Test Time setting from 0.1 s, which enables to reduce the tact time!

TOS5200 can set the test time from 0.1 sec without sacrificing measurement accuracy. This makes test time 5 times faster compared to the TOS5050A (max test time: 0.5sec) and it leads to reduce the tact time. Reduction of the tact time leads to improve the productivity, so it has been an issue that reducing the tact time may cause to worsen the measurement accuracy when the test time is faster than measurement respond speed.

Rise time / Fall time control function

The rise time control function is to prevent the excessive stress that is being applied to the EUT (test object). The Hipot (Withstanding voltage) test is conducted to verify the safety performance of the EUT and which test voltage for Hipot (Withstanding voltage) test is applied approximately five to ten times greater than the voltage that handles by the EUT. If a high voltage is applied rapidly with no rise time, the transitional large voltage (current) will be occurred, and it may cause a damage to the EUT. For this reason, safety standards stipulate the procedure of Hipot (Withstanding voltage) test, and the test voltage must be gradually increased to the specified voltage when the test is performed. The rise time control function adopted in the TOS5300 Series can set the voltage rise time from 0.1s to 10.0 s (at a resolution of 0.1s) and also it is capable to set the 50 % (fixed) of the applied test voltage. In addition, the fall time control function enables to decrease the test voltage gradually after the completion of a PASS judgement. The voltage fall time is fixed at 0.1 s (OFF is also selectable).

The Rise time control function enables you to increases the test voltage gradually to reach the setting voltage while the AC Hipot (Withstanding voltage) test is conducted. The voltage rise time can be set from 0.1 s to 10.0 s at a resolution of 0.1s.

The Fall time control function enables you to decrease the test voltage gradually after the completion of a PASS judgement when the AC Hipot (Withstanding voltage) test is made at the AC Hipot (Withstanding voltage) test. The voltage fall time is fixed at 0.1 s. (OFF is also selectable).

Improved the setting resolution of the leak current by 0.01 mA!

TOS5200 is can set the current limit from 0.01 mA to 110 mA. (TOS5050A: 0.1 mA to 110 mA)

- Enable to clarify the actual value of device under test (DUT)
- The setting resolution of the lower limit setting has been improved from the previous model, it enables to defect the failure more accurately.

TOS5200 is can set the current limit from 0.01 mA to 110 mA. (TOS5050A: 0.1 mA to 110 mA)

- Enable to clarify the actual value of device under test (DUT)
- The setting resolution of the lower limit setting has been improved from the previous model, it enables to defect the failure more accurately.

\[\text{VALUE!} \quad \text{Capable of Test Time setting from 0.1 s, which enables to reduce the tact time!} \]

\[\text{VALUE!} \quad \text{Rise time / Fall time control function} \]

\[\text{VALUE!} \quad \text{Improved the setting resolution of the leak current by 0.01 mA!} \]
Judgment feature

- **PASS HOLD** is enabled, the PASS signal is generated continuously until the TOS5300 Series receives a STOP signal.
- The **UPPER FAIL** and **LOWER FAIL** signals are generated continuously until the TOS5300 Series receives a STOP signal.
- The **FAIL** and **PASS** buzzer volume levels can be changed.
- For **PASS** judgments, the length of time that the buzzer sounds for is fixed to 0.2 seconds. Even if **PASS HOLD** is enabled, the buzzer turns off after 0.2 seconds.

### Upper limit setting

- 0.01 mA to 110 mA

### Lower limit setting

- 0.01 mA to 110 mA / OFF

### Judgment accuracy

- ±1.00 mA ± (1.5 % of set) ± (1.5 % of set + 30 μA)

### Current detection method

- Calculates the current’s true rms value and compares this value with the reference value

### Calibration

- Calibrated with the rms of a sine wave using a pure resistive load

---

### Time

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage rise time</td>
<td>0.1 s to 10.0 s</td>
</tr>
<tr>
<td>Voltage fall time</td>
<td>0.1 s / OFF (only enabled when a PASS judgment occurs)</td>
</tr>
<tr>
<td>Test Time</td>
<td>0.1 s to 999 s, can be turned off (TIMER OFF)</td>
</tr>
</tbody>
</table>

### Resolution

- 0.1 s

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### Output voltage monitor feature

- If output voltage exceeds the specified value + 350 V or is lower than the specified value - 350 V, output is turned off, and protective features are activated.

### Voltmeter

- **Digital**
- **Measurement range**: 0.000 kV to 6.500 kV AC
- **Display**: i = measured current
- **Accuracy**
  - V < 500 V: ± (1.5 % of reading + 20 V)
  - V ≥ 500 V: ± 1.5 % of reading
- **Response**
  - True rms; Average value response/rms display switchable

### Ammeter

- **Digital**
- **Measurement range**: 0.00 mA to 110 mA
- **Display**: i = measured current
- **Accuracy**
  - 1.00 mA ≤ i: ± (1.5 % of reading)
  - i < 1.00 mA: ± (1.5 % of reading + 30 μA)
- **Response**
  - True rms; Mean-value response rms display Can be switched

### Judgment feature

- **PASS**
  - If the specified time elapses without any problems, the output is turned off, and a PASS judgment occurs.
  - PASS LED lights; displayed on the screen
  - Generates a PASS signal

### Voltage rise time

- 0.1 s to 10.0 s

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### Specifications

- **AC Output section**
  - **Output range**: 0.05 kV to 5.00 kV
  - **Setting accuracy**: ± (2 % of set + 20 V) [at no load]
  - **Setting range**: 0.00 mA to 5.50 mA
  - **Resolution**: 0.1 V STEP
  - **Max. rated output**: 500 VA (5 kV/100 mA)
  - **Max. rated voltage**: 5 kV
  - **Max. rated current**: 100 mA [output voltage 0.5 kV or higher]
  - **Transformer rating**: 500 VA
  - **Output voltage waveform**: Sine
  - **Distortion**: If the output voltage is 0.5 kV or more: 3 % or less (when no load or a pure resistive load is connected)
  - **Frequency**: 50 Hz or 60 Hz
  - **Accuracy**: ± 0.5 % (excluding during voltage rise time)
  - **Voltage regulation**: 10 % or less (when changing from maximum rated load to no load)
  - **Input voltage variation**: ±0.3 % (5 kV; when no load is connected; power supply voltage: 90 V to 250 V)
  - **Short-circuit current**: 20 mA or more (when the output voltage is 0.5 kV or greater)
  - **Transformer rating**: 500 VA
  - **Output voltage waveform**: Sine
  - **Distortion**: If the output voltage is 0.5 kV or more: 3 % or less (when no load or a pure resistive load is connected)
  - **Frequency**: 50 Hz or 60 Hz
  - **Accuracy**: ± (100 ppm + 20 ms) excluding Fall Time

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### Withstanding voltage tester

- **Output section**
  - **Output range**: 0.05 kV to 5.00 kV
  - **Setting accuracy**: ± (2 % of set + 20 V) [at no load]
  - **Setting range**: 0.00 mA to 5.50 mA
  - **Resolution**: 0.1 V STEP
  - **Max. rated output**: 500 VA (5 kV/100 mA)
  - **Max. rated voltage**: 5 kV
  - **Max. rated current**: 100 mA [output voltage 0.5 kV or higher]
  - **Transformer rating**: 500 VA
  - **Output voltage waveform**: Sine
  - **Distortion**: If the output voltage is 0.5 kV or more: 3 % or less (when no load or a pure resistive load is connected)
  - **Frequency**: 50 Hz or 60 Hz
  - **Accuracy**: ± 0.5 % (excluding during voltage rise time)
  - **Voltage regulation**: 10 % or less (when changing from maximum rated load to no load)
  - **Input voltage variation**: ±0.3 % (5 kV; when no load is connected; power supply voltage: 90 V to 250 V)
  - **Short-circuit current**: 20 mA or more (when the output voltage is 0.5 kV or greater)
  - **Transformer rating**: 500 VA
  - **Output voltage waveform**: Sine
  - **Distortion**: If the output voltage is 0.5 kV or more: 3 % or less (when no load or a pure resistive load is connected)
  - **Frequency**: 50 Hz or 60 Hz
  - **Accuracy**: ± (100 ppm + 20 ms) excluding Fall Time

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### Hold feature

- After a test is finished, the measured voltage is retained until the PASS judgment is cleared.

### Start voltage

- The voltage at the start of withstanding voltage tests can be set to 50 % of the test voltage.

### Limit voltage

- The test voltage upper limit can be set. AC: 0.00 kV to 5.50 kV

### Measurement range

- **Voltmeter**: 0.00 mA to 110 mA
- **Ammeter**: 0.00 mA to 110 mA

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### Voltage rise time

- 0.1 s to 10.0 s

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### Voltage fall time

- 0.1 s / OFF (only enabled when a PASS judgment occurs)

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### Test Time

- 0.1 s to 999 s, can be turned off (TIMER OFF)

### Resolution

- 0.1 s / 100 s to 999 s: 1 s

### Accuracy

- ±(100 ppm + 20 ms) excluding Fall Time

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**Note:** Unless specified otherwise, the specifications are for the following settings and conditions.
- The warm-up time is 30 minutes.
- TYP: These are typical values. These values do not guarantee the performance of the product.
- rdng: Indicates the readout value. set: Indicates a setting. f.s: Indicates full scale.
“Talk mode” can be set, when RS232C is used as communication interface.

1. Regarding the output time limits:
   Taking size, weight, and cost into consideration, the heat dissipation capability of the voltage generator that is used for withstanding voltage tests has been designed to be one half of the rated output. Use the TOS5300 Series within the following limits. If you use the product in a manner that exceeds these limits, the output section may overheat, and the internal protection circuits may be activated. If this happens, stop testing, and wait until the TOS5300 Series returns to its normal temperature.

<table>
<thead>
<tr>
<th>Ambient temperature</th>
<th>Pause time</th>
<th>Output time</th>
</tr>
</thead>
<tbody>
<tr>
<td>t ≤ 40 °C</td>
<td>50 mA + i ≤ 110 mA</td>
<td>Greater than or equal to the output time</td>
</tr>
<tr>
<td></td>
<td>i ≤ 50 mA</td>
<td>Not necessary</td>
</tr>
</tbody>
</table>

*Output time = voltage rise time + test time + voltage fall time*

2. Regarding the test voltage waveform:
   Waveform distortions may occur if an DUT whose capacitance is dependent on voltage (for example, an DUT that consists of ceramic capacitors) is connected as the load. However, if the test voltage is 1.5 kV, the effect of a capacitance of 1000 pF or less can be ignored. Because the product’s high-voltage power supply uses the PWM switching method, if the test voltage is 500 V or less, the switching and spike noise proportions are large. The lower the test voltage, the greater the waveform is distorted.

3. For both True rms and Mean-value response, 50 ms or above response time is required to satisfy the measurement accuracy.

4. Regarding ammeter and judgment accuracy:
   During AC withstanding voltage tests, current also flows in the stray capacitance of items such as the measurement leads and jigs. This current that flows in the stray capacitances is added to the current that flows in the DUT, and the sum of these currents is measured. Because the product’s high-voltage power supply uses the PWM switching method, if the test voltage is 500 V or less, the switching and spike noise proportions are large. The lower the test voltage, the greater the waveform is distorted.

Regarding ammeter and judgment accuracy:
   During AC withstanding voltage tests, current also flows in the stray capacitance of items such as the measurement leads and jigs. This current that flows in these stray capacitances, such as by adding upper and lower limits.

<table>
<thead>
<tr>
<th>Output voltage</th>
<th>1 kV</th>
<th>2 kV</th>
<th>5 kV</th>
</tr>
</thead>
<tbody>
<tr>
<td>When using 350 mm long test leads that are suspended in air (TYP)</td>
<td>2 μA</td>
<td>4 μA</td>
<td>10 μA</td>
</tr>
<tr>
<td>When using the accessory, high test lead TL31-TOS (TYP)</td>
<td>16 μA</td>
<td>32 μA</td>
<td>80 μA</td>
</tr>
</tbody>
</table>

In case of 70 % humidity or higher, it is considerable to add 50 μA on the Limit value.

### Other features / Interfaces

**Test mode**

- **Double action feature**: Tests can only be started by pressing and releasing STOP and then pressing START within 0.5 seconds of releasing the STOP switch.
- **Length of time to maintain a PASS judgment result**: You can set the length of time to maintain a PASS judgment: 50 ms, 100 ms, 200 ms, 1 s, 2 s, 5 s, or HOLD.
- **Momentary feature**: Tests are only executed while the START switch is held down.
- **Fail mode feature**: This feature enables you to prevent remotely transmitted stop signals from clearing FAIL judgments and PROTECTION modes.
- **Timer feature**: This feature provides a time for specified periods.
- **Output voltage monitor feature**: If output voltage exceeds “setting + 300 V” or is lower than “setting - 300 V,” the TOS5200 switches to PROTECTION mode, output is turned off, and testing finishes.
- **Memory**: Up to three sets of test conditions can be saved to memory.
- **Key lock**: Locks panel key operations (settings and changes).

**Protective features**

- **Interlock Protection**: An interlock signal has been detected.
- **Power Supply Protection**: An error was detected in the power supply.
- **Volt Error Protection**: While monitoring the output voltage, a voltage outside of the rated limits was detected. AC or DC withstand voltage tests: ±350 V
- **Over Load Protection**: During a withstand voltage test, a value that is greater than or equal to the output limit power was specified. AC withstand voltage test: 550 VA.
- **Over Heat Protection**: The internal temperature of the TOS5200 became too high.
- **Over Rating Protection**: During a withstand voltage test, the output current was generated for a length of time that exceeds the regulated time.
- **Remote Protection**: A connection to or disconnection from the front-panel REMOTE connector was detected.
- **SIGNAL I/O Protection**: The rear-panel SIGNAL I/O connector’s ENABLE signal has changed.
- **USB Protection**: The USB connector has been disconnected while the TOS5200 was being controlled through the USB interface.

<table>
<thead>
<tr>
<th>Interfaces</th>
<th>USB</th>
<th>RS232C *1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>USB Specification 2.0</td>
<td>D-SUB 9-pin connector on the rear panel (compliant with EIA-232-D)</td>
</tr>
<tr>
<td></td>
<td>REMOTE</td>
<td>Front-panel 9-pin MINI DIN connector. By connecting an optional device to this connector, you can control the starting and stopping of tests remotely.</td>
</tr>
<tr>
<td></td>
<td>SIGNAL I/O</td>
<td>Rear-panel D-sub 25-pin connector</td>
</tr>
</tbody>
</table>

*1. “Talk mode” can be set, when RS232C is used as communication interface.

**Test mode**

- **0**: It responds only for commands from PC. (Default setting)
- **1**: It responds automatically for start and end test, and returns the status, setting value, measured value.

<table>
<thead>
<tr>
<th>Response at start</th>
<th>Status</th>
<th>Setting value, Measured value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Response at end of test</td>
<td>&lt;PASS&gt;, &lt;U_FAIL&gt;, &lt;L_FAIL&gt;, &lt;PROT&gt;, &lt;ABOUT&gt;</td>
<td>Test No., Programme No., Test mode, Measured voltage, Measured current, Test time</td>
</tr>
</tbody>
</table>
Specifications

General

Table: Specifications

<table>
<thead>
<tr>
<th>Category</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display</td>
<td>LCD, LED back custom indicators</td>
</tr>
<tr>
<td>Environment</td>
<td></td>
</tr>
<tr>
<td>Spec. guaranteed range</td>
<td>5 °C to 35 °C (41 °F to 95 °F)/20 °F to 80 °F (no condensation)</td>
</tr>
<tr>
<td>Operating range</td>
<td>0 °C to 40 °C (32 °F to 104 °F)/20 °F to 80 °F (no condensation)</td>
</tr>
<tr>
<td>Storage range</td>
<td>-20 °C to 70 °C (4 °F to 158 °F)/80 °F or less (no condensation)</td>
</tr>
<tr>
<td>Power supply</td>
<td></td>
</tr>
<tr>
<td>Nominal voltage range (allowable range)</td>
<td>100 VAC to 240 VAC (90 VAC to 250 VAC)</td>
</tr>
<tr>
<td>Power consumption</td>
<td>When no load is connected (READY): 100 VA or less</td>
</tr>
<tr>
<td></td>
<td>When rated load is connected: 800 VA max.</td>
</tr>
<tr>
<td>Allowable frequency range</td>
<td>47 Hz to 63 Hz</td>
</tr>
<tr>
<td>Insulation resistance</td>
<td>30 MD or more (500 VDC)</td>
</tr>
<tr>
<td>Withstanding voltage</td>
<td>1500 Vac. 1 minute</td>
</tr>
<tr>
<td>Earth continuity</td>
<td>25 Aac, 0.1 O or less</td>
</tr>
<tr>
<td>Electromagnetic compatibility (EMC)</td>
<td>Complies with the requirements of the following directives and standards. EMC Directive 2014/30/EU, EN 61326-1(Class A), EN 55011(Class A), EN 60100-3-2, EN 60100-3-3</td>
</tr>
<tr>
<td>Safety</td>
<td>Complies with the requirements of the following directive and standard. Low Voltage Directive 2014/35/EU '2, EN 61010-1, EN 61000-6-3</td>
</tr>
<tr>
<td>Dimensions (mm/inches)(maximum)</td>
<td>320 (12.6&quot;) (330(12.99&quot;) W × 132(5.2&quot;) (150(5.91&quot;) H × 350(13.78&quot;) (420(16.54&quot;) D</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 14 kg (30.9 lbs)</td>
</tr>
<tr>
<td>Accessories</td>
<td>Power cord : 1pc. / High test lead (TL31-TOS) : 1set (1 red wire and 1 black wire, each with alligator clips); 1.5 m / SIGNAL I/O plug : 1 set (assembly type) / High-voltage warning sticker : 1pc. / Setup Guide / Quick Reference (1 each for English and Japanese) / Safety information / CD-R</td>
</tr>
</tbody>
</table>

Note:
1. Does not apply to specially ordered or modified TOS5200s.
2. Limited to products that have the CE mark on their panels. Not be in compliance with EMC limits unless the ferrite core is attached to the cable for connection of J1 connector.
3. This is a Class A equipment. The TOS5200 is intended for use in an industrial environment. This product may cause interference used in residential areas. Such usage must be avoided unless the user takes special measures to reduce electromagnetic emissions to prevent interference to the reception of radio and television broadcasts.
4. This is a Group 1 equipment. The TOS5200 does not generate and/or use intentionally radio-frequency energy, in the form of electromagnetic radiation, inductive or capacitive coupling, for the treatment of material or inspection/analysis purpose.
5. This is a Class I equipment. Be sure to ground the TOS5200's protective conductor terminal. The safety of this product is only guaranteed when the product is properly grounded.
6. Pollution is addition of foreign matter (solid, liquid or gaseous) that may produce a reduction of dielectric strength or surface resistance. Pollution Degree 2 assumes that only non-conductive pollution will occur except for an occasional temporary conductivity caused by condensation.

Outline drawing

TU01-TOS Option(s) for Electrical Safety Testers

The TU01-TOS is a terminal unit that converts the 25 pin SIGNAL I/O connector of the Kikusui TOS5200 Withstanding Voltage Tester to the 14 pin SIGNAL I/O connector of the TOS5050/5051A. You can insert this unit between a controller and a TOS5200 to perform the external control that you can perform on the TOS5050/5051A.

Distributor/Representative

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