

T O S 5 4 0 0 S E R I E S



Hipot (Withstanding Voltage) & Insulation Resistance Tester

TOS5400 Series

NEW

The PWM amp system provides highly-stable output

5 kV/100 mA (500 VA) AC Hipot (withstanding voltage) test (TOS5401)

6 kV/10 mA (50 W) DC Hipot (withstanding voltage) test (TOS5401/5403)

Dedicated DC model (DC withstand voltage / insulation resistance testing) for efficient evaluation of batteries and PV systems (TOS5403)

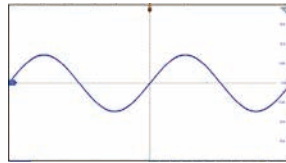
Equipped with a touchscreen display

Standard interfaces: LAN, USB, and RS232C

Short test times thanks to faster output control and measurement

High Stability

Features a 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: $\pm 0.3\%$)

Intuitive operation

7-inch touchscreen built in



Just touch the display to operate intuitively. In addition to each test's setup values, the screen also shows overview explanations and diagrams—making everything easy to see and simple to use.

Shorter Takt Time

Increasing the productivity

With the start phase-shift function* testing can be performed without requiring rise time (RISE TIME), shortening takt time compared with conventional models and improving productivity.

*When the test time unit (Time Unit) is set to Cycle

Easy operation for reliable, safe testing!

Dedicated DC model available

For battery and PV-related testing

The TOS5403 is a DC-only model that supports DC withstand voltage testing and insulation resistance testing. Ideal for batteries that require DC-voltage testing, and for PV-related evaluation tests as well.

Selectable interface

Ready for any automation setup



Standard interfaces include LXI-compliant LAN, USB2.0, USB (USB-TMC compliant), and RS232C.

Detects even instantaneous discharge

Set current-detection sensitivity with the
discharge detection function

With the discharge detection function, you can adjust the current-detection response speed (sensitivity), enabling detection of momentary discharges as well as discharges containing high-frequency components. (Supports arc discharge and corona discharge.)

The TOS5400 Series is designed for withstand voltage and insulation resistance testing—two of the four tests required to ensure electrical product safety. With outputs of 5 kV/100 mA (AC) and 6 kV/10 mA (DC), it supports withstand voltage/insulation resistance tests for electronic equipment and components in accordance with safety standards and requirements such as IEC, EN, BS, VDE, UL, CSA, GB, and JIS, as well as the Electrical Appliance and Material Safety Law. Thanks to a high-efficiency PWM switching amplifier, the output voltage remains stable even when AC line voltage or frequency fluctuates, enabling dependable evaluation testing even in regions with unstable power conditions. For the first time in our lineup of withstand voltage/insulation resistance testers, we've added a touch-panel display for intuitive, efficient operation. Discharge detection lets you adjust response speed (sensitivity), so it can capture momentary discharges as well as those containing high-frequency components—supporting arc and corona discharges. For added safety, we've also included the Start Long function (press and hold START to begin testing) to help prevent unintended test starts. A new standard model that performs across a wide range of applications—from R&D and QA testing to test setups at certification labs, and even inspection on production lines.

New standard models available!



▲TOS5402

Hipot (Withstanding Voltage) & Insulation Resistance Tester

TOS5400 Series

3 Models

Features & Functions

●ACW: 5 kV/100 mA (500 VA), DCW: 6 kV/10 mA (50 W) ●IR: 25 V to 1000 V / 10.000 GΩ (400 V or higher) ●High-accuracy measurement: $\pm 1.5\%$ of reading (Voltage: 500 V or higher, Current: 1 mA or higher) ●Newly developed PWM amplifier ●Touch-panel display ●Rise time/Fall time control ●Discharge function ●Worldwide input ●AUTO function ●LAN, USB, RS232C standard ●Panel memory ●Key lock ●START Long function (press and hold to 1 second to start test); temporary unlock/double-action selectable

Supported tests / Model	TOS5403	TOS5402	TOS5401
AC withstanding voltage (ACW)		✓	✓
DC withstanding voltage (DCW)	✓		✓
Insulation resistance (IR)	✓	✓	

Specifications

Withstanding Voltage Test Section

Output function

AC output section (ACW only)

Item	TOS5401	TOS5402
Output range	0.05 kV to 5.00 kV	
Output setting accuracy	±(2 % of setting + 20 V) (at no load)	
Output setting range	0.000 kV to 5.500 kV	
	0.000 kV to 1.500 kV (When Time Unit is set to Cycle and Phase Shift is set to 0°)	
Output resolution	1 V	
Maximum rated output *1	500 VA (5 kV/100 mA)	
Max. rated voltage	5 kV	
Max. rated current	100 mA (when the output voltage is 0.5 kV or higher)	
Transformer rating	500 VA	
Output voltage waveform *2	Sine.	
Phase shift	The output voltage waveform can start with a phase shifted approx. 90° from the zero-crossing point.	
	Distortion rate 3 % or less. (when the output voltage is 0.5 kV or higher and no load or a pure resistive load is connected)	
Frequency	50 Hz/60 Hz	
Frequency accuracy	±0.5 % (excluding during voltage rise time)	
Voltage regulation	±10 % or less (when changing from maximum rated load to no load)	
Input line regulation	±0.3 % (5 kV at no load; power supply voltage: 90 V to 250 V)	
Short-circuit current	200 mA or more (output voltage 1.0 kV or higher)	
Output method	PWM switching	

- *1. When tests are performed consecutively, output time limit and rest time may become necessary depending on the upper limit setting.
- *2. Waveform distortions may occur if an EUT whose capacitance is dependent on voltage (for example, an EUT 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 high-voltage power supply of the TOS54 series 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.

DC output section (DCW only)

Item	TOS5401	TOS5403
Output range	0.05 kV to 6.00 kV	
Output setting accuracy	±(2 % of setting + 20 V) (at no load)	
Output setting range	0.000 kV to 6.200 kV	
Output resolution	1 V	
Maximum rated output *1	50 W (5 kV/10 mA)	
Max. rated voltage	6 kV	
Max. rated current	10 mA	
Ripple (TYP)	5 kV no load	50 Vp-p
	Max. rated load	100 Vp-p
Voltage regulation	3 % or less (when changing from maximum rated load to no load)	
Short-circuit current (TYP)	40 mA (when generating 6 kV output)	
Discharge function	Forced discharge after test completion (discharge resistance: 125 kΩ) *2, Maximum capacitance: 1 µF *3, Discharge time: 0.0 to 100.0 seconds, Discharge function during interlock activation: ON/OFF	

- *1. When tests are performed consecutively, output time limit and rest time may become necessary depending on the upper limit setting.
- *2. In the following conditions, charging current may activate a FAIL judgment or trigger the protection function. EUT capacitance: 1 µF; Rise Time: 1.0 second or less; Judge Delay: 1.2 seconds or less.
- *3. Maximum capacitance that can be discharged within 2 seconds in a DC withstanding voltage test. Tests can still be conducted beyond the maximum capacitance, but the discharge time will increase.

Common

Item	TOS5401	TOS5402	TOS5403
Start voltage function	The initial voltage at test start can be set to 1 % to 99 % of the test voltage. Resolution: 1 %		n/a
	Disabled if the Time Unit is set to Cycle.		
Limit voltage function	The upper limit of the test voltage can be set. ACW: 0.000 kV to 5.500 kV, DCW: 0.000 kV to 6.200 kV		
	ACW: 0.000 kV to 1.500 kV (When Time Unit is set to Cycle and Phase Shift is set to 0°)		n/a
Output voltage monitor function	If the output voltage deviates more than ±(350 V) from the set value, the output is turned off, and the protection function is activated.		

Measurement function

Digital voltmeter

Item	TOS5401	TOS5402	TOS5403
Measuring range	AC/DC: 0.000 kV to 6.500 kV	AC: 0.000 kV to 6.500 kV	DC: 0.000 kV to 6.500 kV
Display	□.□□□ kV		
Accuracy	V < 500 V: ±(1.5 % of reading + 10 V)		
	V ≥ 500 V: ±1.5 % of reading		
Response *1	ACW: True rms/ Mean-value response rms display can be switched. DCW and IR: Mean-value		Mean-value
Hold function	Holds the measured voltage value at the end of the test while the PASS/FAIL judgment result is displayed.		

- *1. The true rms value and the average response rms value, require a response time of at least 50 ms in order to meet the measurement accuracy.

Digital ammeter

Item	TOS5401	TOS5402	TOS5403
Measuring range	AC: 0.00 mA to 110 mA	AC: 0.00 mA to 110 mA	DC: 0.00 mA to 11 mA
Display (i = measured current)	i < 10 µA 10 µA ≤ i < 100 µA 100 µA ≤ i < 1 mA 1 mA ≤ i < 10 mA 10 mA ≤ i < 100 mA 100 mA ≤ i	□. □ µA □□. □ µA □□□. □ µA □. □□□ mA □□. □□ mA □□□. □ mA	
Accuracy *1 (i = measured current)	1.00 mA ≤ i i < 1.00 mA	±(1.5 % of reading) ±(1.5 % of reading + 20 µA)	
Response *2	ACW: True rms/ Mean-value response rms display can be switched. DCW: Mean-value		Mean-value
Hold function	The current measurement after a test is finished is held while the pass judgment is displayed.		

- *1. When the humidity is 70 % or higher, add 50 µA. During AC voltage tests, current also flows in the stray capacitance of items such as the test leads and tools. For details on stray capacitance, see "Stray Capacitance of AC Withstanding Voltage Tests".
- *2. The true rms value and the average response rms value, require a response time of at least 50 ms in order to meet the measurement accuracy.

Judgment function

Item	TOS5401		TOS5402	TOS5403
Current judgment *1	Function	The output is shut off when a judgment is made. Beep volume level can be set for PASS and FAIL separately.		
UP-PER FAIL	Judgment method	Upper limit (Upper) is detected.		
	Display	Shown on the display.		
	Beep sound	On		
	SIGNAL I/O	The U FAIL signal is generated continuously until a STOP signal is received		
LOW-ER FAIL	Judgment method	Lower limit (Lower) is detected. Voltage rise time (Rise Time)Voltage fall time (Fall Time).		
	Display	Shown on the display.		
	Beep sound	On		
	SIGNAL I/O	The L-FAIL signal is generated continuously until a STOP signal is received		
PASS	Judgment method	PASS judgment is made if Upper-FAIL or Lower-FAIL has not occurred when the test time elapses.		
	Display	Shown on the display.		
	Beep sound	ON (fixed at 0.2 s regardless of Pass Hold setting)		
	SIGNAL I/O	The PASS signal is generated for the length of time specified by the Pass Hold setting. If Pass Hold is set to infinity, the PASS signal is generated continuously until a STOP signal is received.		
Upper limit setting range		AC: 0.01 mA to 110.00 mA DC: 0.01 mA to 11.00 mA		DC: 0.01 mA to 11.00 mA
Lower limit setting range		AC: 0.00 mA to 109.99 mA, or OFF DC: 0.00 mA to 10.99 mA, or OFF		DC: 0.00 mA to 10.99 mA, or OFF
Judgment accuracy *2	1.00 mA ≤ i i < 1.00 mA	±(1.5 % of setting) ±(1.5 % of setting + 20 µA)		
Current detection method		Calculates the current's true rms value or mean-value and compares this value with the reference value.		
Calibration		Calibrated with the rms of a sine wave using a pure resistive load.		
Discharge detection function	Function	Separately from the Upper judgment, it is possible to choose between low-pass filter (LPF) and high-pass filter (HPF) to detect a discharge at the EUT.		
	LPF	The judgment criterion is set to a value greater than the set Upper value. It can be switched between three levels: Fast, Medium, Slow. It is generally for normal withstanding voltage test.		
	HPF	The judgment criterion is set to a fixed value independently of the set Upper value. It can be switched between three levels: High, Medium, Low. It is mainly for detecting small discharges.		

- *1. In the following conditions, charging current may activate a FAIL judgment or trigger the protection function. EUT capacitance: 1 µF; Rise Time: 1 second or less; Judge Delay: 1.2 seconds or less.
- *2. When the humidity is 70 % or higher, add 50 µA. During AC voltage tests, current also flows in the stray capacitance of items such as the test leads and tools. For details on stray capacitance, see "Stray Capacitance of AC Withstanding Voltage Tests".

Timer function

Item	TOS5401		TOS5402	TOS5403
Voltage rise time (Rise Time)	Setting range	0.1 s to 100 s, or OFF. If Time Unit is set to CYCLE in ACW tests: *1 • If Phase Shift is set to 0°: Fixed to OFF. • If Phase Shift is set to 90°: Fixed to 1/4 Cycle.		n/a
	Setting resolution	0.1 s		
	Setting range	0.1 s to 100 s, only enabled when a PASS judgment occurs. Disabled if the Time Unit is set to CYCLE.		
Voltage fall time (Fall Time)		If Time Unit is set to CYCLE in ACW tests, it is fixed to OFF.		n/a
	Setting resolution	0.1 s		
	Setting range	0.1 to 1000 seconds, or OFF. If Time Unit is set to CYCLE in ACW tests:. • At 50 Hz: 2 to 50000 cycles • At 60 Hz: 2 to 60000 cycles		
Test time				n/a
	Setting resolution	0.1 s or 1 Cycle		
	Setting range	0.1 s to 100 s	n/a	0.1 s to 100 s
Judgment delay (Judge Delay)	Setting resolution	0.1 s	n/a	0.1 s
	Accuracy	±(100 ppm + 20 ms) excluding Fall Time		

- *1. If Phase Shift is set to 90°, the time for quarter-wave length is fixed as Rise Time; therefore, the voltage is output for Test Time + 1/4 cycles. For example, If Test Time is set to 2, Time Unit to Cycle, Phase Shift to 90°, and Frequency to 50 Hz, voltage is output for approx. 45 ms (20 ms × (2 + 1/4 cycles)).

Insulation Resistance Test Section

Output function

Item	TOS5402	TOS5403
Output voltage	25 Vdc to 1000 Vdc, negative polarity	
Output setting accuracy	±(1.0 % of setting + 2 V)	
Output setting range	0.00 kV to 1.02 kV	
Output setting regulation	1 V	
Max. rated load	1 W (-1000 Vdc/1 mA)	
Max. rated current	1 mA	
Ripple	1000 V no load	2 Vp-p or less
	Max. rated load	10 Vp-p or less
Voltage regulation	1 % or less (when changing from maximum rated load to no load)	
Short-circuit current	12 mA or less	
Discharge function	Forced discharge after test completion (discharge resistance: approx. 25 kΩ) *1 Maximum capacitance: 2 µF *2 Discharge time: 0.0 to 100.0 seconds Discharge function during interlock activation: ON/OFF	
Output voltage monitor function	If the output voltage exceeds ±(10 % of setting + 10 V), the output is turned off, and the protection function is activated.	

- *1. In the following conditions, charging current may activate a FAIL judgment or the protection function: EUT capacitance: 2 µF; Rise Time: seconds or less; Judge Delay: 2.0 seconds or less; Low Pass Filter: OFF
- *2. Maximum capacitance that can be discharged within 2 seconds in an insulation resistance test. Tests can still be conducted beyond the maximum capacitance, but the discharge time will increase.

Specifications

Measurement function

Digital voltmeter

Item	TOS5402	TOS5403
Measuring range	0 V to -1200 V	
Display (V = measured voltage)	V < 10 V	□.□ V
	10 V ≤ V < 100 V	□□.□ V
	100 V ≤ V < 1000 V	□□□.□ V
	1000 V ≤ V	□□□□.□ V
Accuracy	±(1 % of reading + 1 V)	

Resistance meter

Item	TOS5402	TOS5403
Measurement range / accuracy *1 (i: Measurement current) (R = measured insulation resistance)	40 nA ≤ i ≤ 100 nA 100 nA < i ≤ 200 nA 200 nA < i ≤ 1000 nA 1 μA < i ≤ 2 mA	200.00 MΩ ≤ R ≤ 10.000 GΩ: ±(20 % of reading) 100.00 MΩ ≤ R < 5.000 GΩ: ±(10 % of reading) 5.000 GΩ ≤ R ≤ 10.000 GΩ: ±(20 % of reading) 10.000 MΩ ≤ R < 5.000 GΩ: ±(5 % of reading) 0.001 MΩ ≤ R < 10.000 MΩ: ±(2 % of reading + 5 digit) 10.000 MΩ ≤ R < 2.000 GΩ: ±(2 % of reading)
Display (R = measured insulation resistance)	25 kΩ ≤ R < 1.000 MΩ	□□□ kΩ
	1.000 MΩ ≤ R < 20.0 GΩ	□.□□□ MΩ
		□□.□□ MΩ
		□□□□ MΩ
		□.□□□ GΩ
		□□.□□ GΩ
	20.0 GΩ ≤ R	OVER
Hold function	The resistance measurement after a test is finished is held while the pass judgment is displayed.	
Response	Average response (averaged time: Fixed at 100 ms)	

*1. Humidity: 70 %rh or less (no condensation), when there is no interference caused by wobbly test leads or other problems. For measurements of 200 nA or less, the humidity 50 %Rh or less.

Judgment function

Item	TOS5402	TOS5403
Judgment method and judgment operation *1	The output is shut off when a judgment is made. Beep volume level can be set for PASS and FAIL separately.	
UPPER FAIL	Judgment method	Upper limit (Upper) is detected. Voltage rise time (Rise Time)
	Display	Shown on the display
	Beep sound	On
	SIGNAL I/O	The U FAIL signal is generated continuously until a STOP signal is received.
LOWER FAIL	Judgment method	Lower limit (Lower) is detected or when there is an abnormality during the voltage rise.
	Display	Shown on the display
	Beep sound	On
	SIGNAL I/O	The L-FAIL signal is generated continuously until a STOP signal is received.
PASS	Judgment method	PASS judgment is made if Upper-FAIL or Lower-FAIL has not occurred when the test time elapses.
	Display	Shown on the display
	Beep sound	ON (fixed at 0.2 s regardless of Pass Hold setting)
	SIGNAL I/O	The PASS signal is generated for the length of time specified by the Pass Hold setting. If Pass Hold is set to Infinity, the PASS signal is generated continuously until a STOP signal is received.
Upper limit setting range	0.001 MΩ to 10.000 GΩ	
Lower limit setting range	0.000 MΩ to 9.999 GΩ	
Judgment accuracy (common between Upper and Lower) *2 *3 *4	Measurement accuracy + 2 digits	

- *1. In the following conditions, charging current may activate a FAIL judgment or the protection function: EUT capacitance: 2 μF; Rise Time: 1.5 seconds or less; Judge Delay: 2.0 seconds or less; Low Pass Filter: OFF
- *2. Humidity: 70 %rh or less (no condensation), when there is no interference caused by wobbly test leads or other problems.
- *3. For judgments of 5 μA or less, a test time of at least 1.0 seconds is necessary.
- *4. When the low pass filter is set to medium, a test time of at least 0.3 seconds is required. When the low pass filter is set to slow, a test time of at least 0.5 seconds is required.

Timer function

Item	TOS5402	TOS5403
Voltage rise time (Rise Time)	Setting range	0.1 s to 100 s or OFF
	Setting resolution	0.1 s
Voltage fall time (Fall Time)	0.1 s to 100 s or OFF (only enabled when a PASS judgment occurs)	
Judgment delay (Judge Delay)	Setting range	0.1 s to 100 s
	Setting resolution	0.1 s
Accuracy	±(100 ppm + 20 ms) excluding Fall Time	

Auto Test

Item	Specifications
Number of programs	61
Number of steps	2
Test mode	The same settings as for single test settings are possible, except for the following. The same test can be selected consecutively. - Limit Voltage is fixed to the maximum rated value per test mode. - Test Time is fixed to ON. - In IR test, Lower is fixed to ON (only for models that support IR testing).
Fail judgment operation	The following operations are selectable: - Continue: All steps are executed even for a FAIL judgment. - Abort: Automatic test ends for a FAIL judgment.
Interval time between steps	0.1 s to 100 s
Step start condition	The following operations are selectable: - Immediate: When the INIT or INIT:TEST command is received via remote control, starts all steps consecutively. - BUS: Step 1 can be started using the software trigger from remote control. After it is completed, the operation pauses. When the command is then received again, Step 2 starts. - External: Step 1 starts upon performing the start operation. After a step is completed, the operation is paused. When you perform another start operation, step 2 starts. - Once: When you perform a start operation, all steps are executed consecutively.

General Specifications

Item	Specifications		
Environment	Installation location	Indoors, 2000 m or less, Pollution Degree 2 *1	
	Spec guaranteed range	Temperature	5 °C to 35 °C (41 °F to 95 °F)
		Humidity	20 %rh to 80 %rh (no condensation)
	Operating range	Temperature	0 °C to 40 °C (32 °F to 104 °F)
		Humidity	20 %rh to 80 %rh (no condensation)
	Storage range	Temperature	-20 °C to 70 °C (-4 °F to 158 °F)
Humidity		90 %rh or less (no condensation)	
Power Supply	Nominal voltage range (allowable voltage range)	100 Vac to 240 Vac (90 Vac to 250 Vac)	
	Power consumption	No load (READY state)	100 VA or less
		Rated load	800 VA max. Maximum 200 VA for TOS5403 only.
	Allowable frequency range	47 Hz to 63 Hz	
Insulation resistance (between AC LINE and chassis)		30 MΩ or more (500 Vdc)	
Withstanding voltage (between AC LINE and chassis)		1400 Vac for 2 seconds	
Earth continuity		25 Aac/0.1 Ω or less	
External dimensions		320 (12.60)(MAX 330 (12.99))W × 132 (5.20)(MAX 150 (5.91))H × 350 (13.78)(MAX 380 (14.96))D mm (inches)	
Weight		TOS5401: Approx. 16 kg (35.27 lb), TOS5402: Approx. 15 kg (33.07 lb), TOS5403: Approx. 9 kg (19.84 lb)	
Electromagnetic compatibility (EMC) *2 *3		Complies with the requirements of the following directive and standards. EMC Directive 2014/30/EU EN 61326-1 (Class A *4), EN 61000-3-2, EN 61000-3-3 EN 55011 (Class A *4, Group 1 *5) Applicable under the following conditions: The maximum length of all cabling and wiring connected to the TOS54 series must be less than 2.5 m. Use the included high voltage test leads. Electrical discharges are applied only to the EUT. Shielded cables are being used when using the SIGNAL I/O.	
Safety *2		Complies with the requirements of the following directive and standards. Low Voltage Directive 2014/35/EU *3 EN 61010-1, EN61010-2-034 (Class I *6, Pollution Degree 2 *1)	

- *1. Pollution is addition of foreign matter (solid, liquid or gaseous) that may produce a reduction of dielectric strength or surface resistivity. Pollution Degree 2 assumes that only non-conductive pollution will occur except for an occasional temporary conductivity caused by condensation.
- *2. Does not apply to specially ordered or modified products.
- *3. Only for models with CE marking / UKCA marking on their body.
- *4. This is a Class A instrument. This product is intended for use in an industrial environment. This product may cause interference if used in residential areas. Such use must be avoided unless the user takes special measures to reduce electromagnetic emissions to prevent interference to the reception of radio and television broadcasts.
- *5. This product belongs to Group 1 products. This product does not generate and/or use intentionally radio-frequency energy, in the form of electromagnetic radiation, inductive and/or capacitive coupling, for the treatment of material or inspection/analysis purpose.
- *6. The TOS54 series is a Class I device. Be sure to ground the protective conductor terminal of the TOS54 series. The safety of this product is guaranteed only when the product is properly grounded.



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