TOS5050

WITHSTANDING VOLTAGE TESTER



AC 5 kV

Transformer capacity: 500 VA

Outline

The Model TOS5050 is a withstanding voltage tester for AC use only having a transformer capacity of 500 VA and test voltage of 0 to 5 kV.

Functions include Pass/fail judgement (using a window comparator type), remote control function, memory backup function, interlock function and other features that realize high levels of safety, reliability and ease of operation during use by the operator. In addition, the use of a large color display and a considerable reduction in size make the TOS5050 both more legible and easier to handle.

Features

- Complies with various safety standards
- AC use only (0 to 5 kV)
- Large color display
- Digital voltmeter and ammeter
- Digital timer
- Window comparator type employed for Pass/fail judgement.
- Equipped with remote control function
- Various signal outputs
- Provided with zero turn-on switch
- Compact size



A high-luminance, fluorescent display tube is employed for display of settings, status and judgement results.

WITHSTANDING VOLTAGE TESTER

Specifications

■ Test Voltage Applied Voltage Maximum Rated Output Wattage Rating Waveform Voltage Regulation

Switching

■ Output Voltmeters

Scale Accuracy

Indication

Full Scale Response

■ Ammeter Accuracy

Response

■ Pass/fail Judgement Function Type of Judgement

Upper Cutoff Current Setting Range Lower Cutoff Current Setting Range Judgement Accuracy Current Detection

Calibration

No-load Output Voltage ■ Test Time Setting Range

Accuracy

AC only 0 to 2.5/0 to 5 kV

AC: 500VA/5 kV, 100 mA (note 1)

500 VA

Commercial line waveform

Max. 15% (for max. rated load to no

load)

Use of a zero turn-on switch

Analog: 5 kV full scale Analog: ±5% of full scale Digital: ±1.5% of full scale

Analog: Mean value response/rms

value scale

Digital: 2.5 kV/5 kV full scale Digital: Mean value response/rms value display

Digital: $\pm (5\% + 20\mu A)$ of upper cutoff current

Digital: Mean value response/rms value

display

Window comparator type

●FAIL judgement

* When current detected above upper cutoff current

* When current detected below lower cutoff current (FAIL signal generated when FAIL judgement made)

●PASS judgement

* When set time has elapsed and no abnormality is detected

0.1 to 110 mA

0.1 to 110 mA

 $\pm (5\% \text{ of upper cutoff current} + 20\mu\text{A})$ Integration of current absolute value followed by comparison with reference

With rms value of sine wave using a pure resistance load

Approx. 460V when set to 100 mA 0.5 to 999 s (timer-off function provided)

 $\pm 20 \text{ ms}$

■ Signal Outputs

■ Remote Control

■ Interlock Function

■ Power Requirements

■ Dimensions (MAX)

■ Line Voltage

■ Weight

Accessories

H.V ON - Open collector DANGER - Lamp

TEST - Open collector, fluorescent

display tube

PASS - Open collector, fluorescent

display tube, buzzer

U FAIL - Open collector, fluorescent

display tube, buzzer

L FAIL - Open collector, fluorescent

display tube, buzzer

READY - Open collector, fluorescent

display tube

PROTECTION - Open collector,

fluorescent display tube

STATUS SIGNAL OUTPUT 100V

AC (0.3 A Max.)

switch

◆ Rating of open collector: 4.5 to 30V/

400 mA (Max. Total)

Test and reset operations can be remote controlled in the following cases:

When using a separately sold remote

control box When using a separately sold

highvoltage test probe When controlling with a make contact signal such as a relay or

When using low active control by a

logic device and so on Testing can no longer be performed

when an interlock signal is input (PROTECTION state).

100V±10%, 50/60 Hz (note 2) Max. 25 VA under no-load conditions

Approx. 640 VA at rated load $320W \times 132H \times 300D \text{ mm}$ $(330W \times 150H \times 365D \text{ mm})$

Approx. 15 kg (for line voltage of

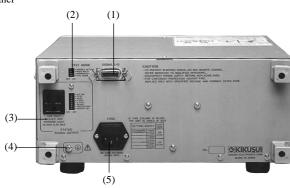
100V)

High-voltage test lead TL01-TOS (max. allowable voltage: 5 kV/1.5 m) 14-pin amphenol plug (assembled)

Note 1: Continuous output time may be limited depending on current high limit reference value and ambient temperature.

Note 2: Nominal voltages of 110V, 120V, 220V, 230V and 240V available as factory options.

Rear Panel



Input/output connectors for interlock function input/output signals, start/ stop remote control input signals and status output signal.

(2)Test Mode Switch

This is a DIP switch for setting special test modes. Parameter settings such as test start and interruption operations can be changed with this switch.

(3)Status Signal Output Terminal

This is a 100V AC output terminal for operating an optional warning lamp unit or buzzer unit. Conditions during AC 100V output (status, judgement results) are set with DIP switches.

(4)Ground Terminal

(5)Line Input Terminal (integrated with fuse holder)