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SCPI COMMAND REFERENCE

TH9110 Series

AC/DC Withstand Voltage & Insulation Resistance Tester

Companion document to the TH9110 Series Operation Manual. Remote-control SCPI command set for TH9110, TH9110A, TH9111, TH9111A and TH9112A, covering display, test-file editing, ACW / DCW / IR / PA / OSC and breakdown-voltage parameters, system settings, file storage and result retrieval.

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TH9110 Series SCPI Command Reference

TH9110 / TH9110A / TH9111 / TH9111A / TH9112A

This document lists the remote-control command set of the TH9110 series AC/DC withstand-voltage and insulation-resistance testers. It is the companion reference to the *TH9110 Series Operation Manual*. SCPI remote control is available on all five models.

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Commands only describe the actual characters received or sent; all characters are ASCII. Every command string must end with the termination tag NL (newline, decimal 10); without it the instrument does not parse the command.

SECTION 1

Conventions

1.1 Command subsystems

Subsystem	Covers
`DISPlay`	Active display page and test-page display mode (§2)
`FUNCtion`	Test mode, test-file editing, per-step parameters for ACW, DCW, IR, PA and OSC, and breakdown-voltage test settings (§3–6)
`SYSTem`	Measurement setup (`MEA`) and environment setup (`ENV`) (§7–8)
`MMEM`	Internal test-file store, load, delete and copy (§9)
`USB`	External (USB memory) test-file store, load, delete and copy (§9)
`FETCh`	Measurement-result retrieval (§10)
Other	`*IDN?`, `FUNC:START`, `*STOP` (§10)

1.2 Syntax rules

- The command set describes only the characters the instrument receives or sends. All command characters are ASCII.
- Data placeholders such as `<value>` are ASCII strings. The default format is integer or floating point; the default data unit is not part of the command.
- Every command must end with a termination tag. The default is `NL` (newline, decimal 10, 0x0A); without it the instrument does not parse the command. `^END` (the IEEE 488 bus EOI signal) may be used as the terminator over GPIB.
- Keywords are written in mixed case: the capital letters are the short form. A query is formed by appending `?` to the command.
- In examples, an underscore (`_`) marks a space character. It is not part of the command syntax.

1.3 Per-step parameter commands

Parameters of a test step are addressed with the step number `<sn>` (integer, **1–50**):

```
Set:   FUNC:SOUR:STEP <sn>:AC:VOLT <voltage>
Query: FUNC:SOUR:STEP <sn>:AC:VOLT?
```

The test-mode keyword in the path is `AC`, `DC`, `IR`, `PA` or `OS` (open/short, OSC). Example: setting the ACW voltage of STEP 1 to 1000 V and reading it back:

```
FUNC:SOUR:STEP 1:AC:VOLT 1000
FUNC:SOUR:STEP 1:AC:VOLT? → 1000
```

`<sn>` addresses a step *within* the current test file. It is separate from the file name used by the `MMEM` and `USB` subsystems (§9).

1.4 Writing all parameters of a step in one command

A complete step can be written in a single line with the `CAL` keyword. Whatever test function is selected, **all parameters must be written**, in the fixed order below:

```
FUNC:SOUR:STEP_1:CAL_0_1500_0_0.01_0.005_0.0_0.005_0_10_0_0_0_11_0_50_200_HELLO!_0_0
```

No.	Parameter	Value
1	Test mode	0 = AC, 1 = DC, 2 = IR, 3 = PA, 4 = OSC
2	Test voltage	50–6000 V
3	Test frequency	0 = 50 Hz, 1 = 60 Hz
4	Upper limit	
5	Lower limit	
6	Fixed value	0.0
7	Arc limit	
8	Rise time	
9	Test time	
10	Fall time	
11	Ramp judgement	0 = OFF, 1 = ON
12	Ramp arc	
13	OSC standard capacitance	e.g. 11 nF
14	IR range	0 = auto, 1–6 = 300 nA–10 mA (see §5.1, `IR:RANG`)
15	Open-circuit criterion	e.g. 50 %
16	Short-circuit criterion	e.g. 200 %
17	PA message	e.g. HELLO!
18	DC wait time	
19	PA time	

The example sets STEP 1 to an AC test at 1500 V and 50 Hz. The underscore marks a space.

SECTION 2

DISPlay Subsystem

The DISPlay subsystem sets the instrument's display page and the display mode of the measurement page.

Command	Details
`DISP:PAGE <page name>` `DISP:PAGE?`	Switch to, or query, the active display page. Example: `DISP:PAGE TEST`; query `DISP:PAGE?` → `TEST`.
`DISP:MODE <0/1>` `DISP:MODE?`	Set or query the display mode of the measurement page: 0 = step mode, 1 = list mode. Example: `DISP:MODE 0`; query `DISP:MODE?` → `0`.

<page name>	Switches the display to
`TEST`	Measurement display page (TEST)
`SETUP`	Measurement setting page (SETUP)
`SYST`	System setting page (SYSTEM)
`FILE`	File list page (FILE)
`MAIN`	Standby main page

SECTION 3

FUNCtion Subsystem — Mode & File Editing

The FUNCtion subsystem sets the test mode and the test parameters of the instrument.

3.1 Test mode

Command	Details
`FUNC:MODE <mode>` `FUNC:MODE?`	Set or query the test mode. `<mode>`: integer, 0 = normal mode, 1 = breakdown mode. Example: `FUNC:MODE 1`; query `FUNC:MODE?` → `1`.

3.2 Test-file editing

These commands edit the step list of the current test file. They take the step number `<sn>` (1–50) and have no query form.

Command	Details
`FUNC:SOUR:STEP_<sn>:INS`	Add a new test item to the existing test scheme (STEP).
`FUNC:SOUR:STEP_<sn>:DEL`	Delete the current test item from the existing test scheme (STEP).
`FUNC:SOUR:STEP_<sn>:NEW`	Create a new, empty test scheme in which to write a completely new set of test items.

3.3 Controlling a test

Starting and stopping a test is described in §10 (`FUNC:START` , `*STOP`).

3.4 Parameter command groups

Parameters	Section
AC / DC	§4
IR / PA / OS	§5
Breakdown-voltage test	§6 (`FUNC:BREAK:...`)

SECTION 4

FUNCtion Subsystem — AC / DC Parameters

Issued as `FUNC:SOUR:STEP <sn>:AC:<field>` or `FUNC:SOUR:STEP <sn>:DC:<field>`. Every field can be queried by appending `?`. Times are in seconds, currents in mA, voltages in V.

4.1 AC withstand-voltage (ACW) fields

Field	Data format, range, unit	Description
`VOLT`	Integer, 50–5000 V, resolution 1 V	ACW test voltage. Example: `FUNC:SOUR:STEP 1:AC:VOLT 1000` → query returns `1000`.
`UPPC`	Float, resolution 0.001 mA. TH9110 / TH9110A: 0.001–120.000 mA (voltage below 4000 V); 0.001–100.000 mA (voltage above 4000 V). TH9111 / TH9111A: 0.001–40.000 mA	Upper current limit. Example: `...:AC:UPPC 1` → `1.000`.
`LOWC`	Float, 0 to the upper current limit (0 = OFF), resolution 0.001 mA	Lower current limit.
`TTIM`	Float, 0 or 0.3–999.0 s (0 = OFF), resolution 0.1 s	Test time. Example: `...:AC:TTIM 1` → `1.0`.
`RTIM`	Float, 0–999.0 s (0 = OFF), resolution 0.1 s	Voltage rise time.
`FTIM`	Float, 0–999.0 s (0 = OFF), resolution 0.1 s	Voltage fall time.
`ARC`	Float, 0 or 1.0–20.0 mA (0 = OFF), resolution 0.1 mA	Arc (ARC) current upper limit.
`FREQ`	Character, 50 or 60 Hz	Test frequency. Example: `...:AC:FREQ 50` → `50`.

4.2 DC withstand-voltage (DCW) fields

Field	Data format, range, unit	Description
`VOLT`	Float, 50–6000 V, resolution 1 V	DCW test voltage.
`UPPC`	Float, resolution 0.0001 mA. TH9110 / TH9110A: 0.0001–25.000 mA (voltage 1500 V or higher); 0.0001–20.000 mA (voltage below 1500 V). TH9111 / TH9111A: 0.0001–20.000 mA	Upper current limit.
`LOWC`	Float, 0 to the upper current limit (0 = OFF), resolution 0.0001 mA	Lower current limit.

Field	Data format, range, unit	Description
TTIM	Float, 0 or 0.3–999.0 s (0 = OFF), resolution 0.1 s	Test time.
RTIM	Float, 0–999.0 s (0 = OFF), resolution 0.1 s	Voltage rise time.
FTIM	Float, 0–999.0 s (0 = OFF), resolution 0.1 s	Voltage fall time.
WTIM	Float, 0–999.0 s (0 = OFF), resolution 0.1 s	Wait time.
ARC	Float, 0 or 1.0–10.0 mA (0 = OFF), resolution 0.1 mA	Arc (ARC) current upper limit.
RAMPARC	Float, 0 or 1.0–10.0 mA (0 = OFF), resolution 0.1 mA	Arc limit during voltage ramp-up.
RAMP	Character, ON / OFF (1 / 0)	Ramp-up judgement. Example: `FUNC:SOUR:STEP 1:DC:RAMP ON` → query returns `1`.

4.3 Worked examples

```
FUNC:SOUR:STEP 1:AC:VOLT 1000  → STEP 1 ACW voltage 1000 V
FUNC:SOUR:STEP 1:AC:UPPC 1     → STEP 1 ACW upper current limit 1 mA
FUNC:SOUR:STEP 1:DC:VOLT 1000  → STEP 1 DCW voltage 1000 V
FUNC:SOUR:STEP 1:DC:WTIM 1     → STEP 1 DCW wait time 1 s
```

SECTION 5

FUNCtion Subsystem — IR / PA / OSC Parameters

Issued as `FUNC:SOUR:STEP <sn>:IR:<field>`, `FUNC:SOUR:STEP <sn>:PA:<field>` or `FUNC:SOUR:STEP <sn>:OS:<field>`.

5.1 Insulation resistance (IR) fields

Field	Data format, range, unit	Description
`VOLT`	Float, 50–5000 V (TH9112A: 50–6000 V), resolution 1 V	IR test voltage.
`UPPR`	Float, 0 or lower limit to 50.0 GΩ (TH9112A: 100.0 GΩ) (0 = OFF), resolution 0.1 MΩ; unit MΩ	Upper resistance limit. Example: `...:IR:UPPR 1` → `1`.
`LOWR`	Float, 0.1 MΩ to 50.0 GΩ (TH9112A: 100.0 GΩ), resolution 0.1 MΩ; unit MΩ	Lower resistance limit.
`TTIM`	Float, 0 or 0.3–999.0 s (0 = OFF), resolution 0.1 s	Test time.
`RTIM`	Float, 0–999.0 s (0 = OFF), resolution 0.1 s	Voltage rise time.
`FTIM`	Float, 0–999.0 s (0 = OFF), resolution 0.1 s	Voltage fall time.
`RANG`	Integer, 0–6: 0 = auto, 1 = 10 mA, 2 = 3 mA, 3 = 300 µA, 4 = 30 µA, 5 = 3 µA, 6 = 300 nA	IR measurement range. Example: `...:IR:RANG 1` (10 mA) → `1`.

5.2 PA (prompt) fields

Field	Data format, range, unit	Description
`MESSAge`	Character string	Prompt message shown in the PA step. Example: `FUNC:SOUR:STEP 1:PA:MESSAge HELLO!` → `HELLO!`
`TIME`	Float, 0 or 0.3–999.0 s (0 = continuous), resolution 0.1 s	Duration of the PA state.

5.3 Open / short (OSC) fields

Field	Data format, range, unit	Description
`OPEN`	Integer, 10–100 %, resolution 10	Open-circuit ratio. Example: `...:OS:OPEN 50` → `50`.
`SHOT`	Integer, 0 or 100–500 % (0 = OFF), resolution 10	Short-circuit ratio. Example: `...:OS:SHOT 100` → `100`.
`STAND`	Float, 0.001–40.000 nF, resolution 0.001 nF	Standard capacitance value. Example: `...:OS:STAND 10` → `10.000`.
`GET`	No data (command only; no query)	The instrument samples the current converted through the impedance and stores the resulting standard capacitance value.

WARNING

Before sending `OS:GET`, confirm that the test leads and the test loop are correctly connected.

SECTION 6

FUNCtion Subsystem — Breakdown-Voltage Test

Breakdown-voltage test settings are issued as `FUNC:BREAKdown:<field>` (short form `FUNC:BREAK:...`). Breakdown mode is selected with `FUNC:MODE 1` (§3.1). Every field can be queried by appending `?`.

Field	Data format, range, unit	Description
`STEPMODE`	Integer, 0 or 1	Step mode: 0 = normal step, 1 = voltage step. Example: `FUNC:BREAK:STEPMODE 1` → `1`.
`STEP`	Integer, 2–999, resolution 1	Number of test steps. Example: `FUNC:BREAK:STEP 55` → `55`.
`STEPVOLT`	Float, 5–500 V, resolution 1 V	Step voltage. Example: `FUNC:BREAK:STEPVOLT 50` → `50`.
`MODE`	Integer, 0 or 1	Test mode: 0 = AC, 1 = DC. Example: `FUNC:BREAK:MODE 1` → `1`.
`VOLTStart`	Float, 50–5000 V, resolution 1 V	Start voltage. Short form `VOLTS`. Example: `FUNC:BREAK:VOLTS 1000` → `1000`.
`VOLTEnd`	Float, 50–5000 V, resolution 1 V	End voltage. Short form `VOLTE`. Example: `FUNC:BREAK:VOLTE 5000` → `5000`.
`UPPC`	Float; resolution 0.0001 mA (DC), 0.001 mA (AC). Upper limits as for the withstand tests (§4): AC — TH9110 / TH9110A: 0.001–120.000 mA (voltage below 4000 V), 0.001–100.000 mA (above 4000 V); TH9111 / TH9111A: 0.001–40.000 mA. DC — TH9110 / TH9110A: 0.0001–25.000 mA (1500 V or higher), 0.0001–20.000 mA (below 1500 V); TH9111 / TH9111A: 0.0001–20.000 mA	Upper current limit. Example: `FUNC:BREAK:UPPC 10` → `10.000`.
`LOWC`	Float, 0 to the upper current limit (0 = OFF); resolution 0.0001 mA (DC), 0.001 mA (AC)	Lower current limit. Example: `FUNC:BREAK:LOWC 1` → `1.000`.
`TTIM`	Float, 0 or 0.3–999.0 s (0 = OFF), resolution 0.1 s	Test time. Example: `FUNC:BREAK:TTIM 1` → `1.0`.
`RTIM`	Float, 0–999.0 s (0 = OFF), resolution 0.1 s	Rise time.
`WTIM`	Float, 0–999.0 s (0 = OFF), resolution 0.1 s	Wait time.
`ARC`	Float, 0 or 1.0–10.0 mA (DC), 1.0–20 mA (AC); 0 = OFF; resolution 0.1 mA	Arc (ARC) current upper limit. Example: `FUNC:BREAK:ARC 5` → `5.0`.
`CONTinue`	Integer, 0 or 1	Continuous breakdown test: 0 = OFF, 1 = ON. Example: `FUNC:BREAK:CONT 1` → `1`.
`SAVE`	No data (command only; no query)	Save the breakdown-voltage test settings. Example: `FUNC:BREAK:SAVE`.

6.1 Worked example

Configure a DC voltage-step breakdown test from 1000 V to 5000 V in 50 V steps, with a 10 mA upper limit and 1 s per step, then save:

```
FUNC:MODE 1
FUNC:BREAK:MODE 1
FUNC:BREAK:STEPMODE 1
FUNC:BREAK:VOLTS 1000
FUNC:BREAK:VOLTE 5000
FUNC:BREAK:STEPVOLT 50
FUNC:BREAK:UPPC 10
FUNC:BREAK:TTIM 1
FUNC:BREAK:SAVE
```

SECTION 7

SYSTem Subsystem — Measurement Setup

Commands of the form `SYSTem:MEA:<field>` set the measurement behaviour normally configured on the SYSTEM page. Every command can be queried by appending `?`.

Command	Details
`SYSTem:MEA:TRGMODE`	Trigger mode. Character, 0–2: 0 = manual, 1 = external, 2 = bus. Example: `SYSTem:MEA:TRGMODE 0` → `0`.
`SYSTem:MEA:TRGDLY`	Trigger delay. Float, 0.0–99.9 s, resolution 0.1 s. Example: `SYSTem:MEA:TRGDLY 1.0` → `1.0`.
`SYSTem:MEA:MEAMODE`	Test mode. Character, 0–2: 0 = normal, 1 = repeat, 2 = cycle. Example: `SYSTem:MEA:MEAMODE 0` → `0`.
`SYSTem:MEA:RPTCNT`	Repeat count. Integer, 0–999, resolution 1. Example: `SYSTem:MEA:RPTCNT 2` → `2`.
`SYSTem:MEA:RPTINT`	Test interval. Float, 0.0–99.9 s, resolution 0.1 s. Example: `SYSTem:MEA:RPTINT 1.0` → `1.0`.
`SYSTem:MEA:AFTERFAIL`	State after a failed test. Character, 0–2: 0 = continue, 1 = restart, 2 = stop. Example: `SYSTem:MEA:AFTERFAIL 0` → `0`.
`SYSTem:MEA:PASSHOLD`	Buzzer response time on PASS. Float, 0.2–99.9 s, resolution 0.1 s. Example: `SYSTem:MEA:PASSHOLD 1.0` → `1.0`.
`SYSTem:MEA:STEPHOLD`	Interval between test STEPs. Float, 0.1–99.9 s or KEY, resolution 0.1 s. Example: `SYSTem:MEA:STEPHOLD 1.0` → `1.0`.
`SYSTem:MEA:HARDAGC`	Hardware compensation. ON / OFF (1 / 0). Example: `SYSTem:MEA:HARDAGC ON` → `ON`.
`SYSTem:MEA:SOFTAGC`	Software compensation. ON / OFF (1 / 0). Example: `SYSTem:MEA:SOFTAGC ON` → `ON`.
`SYSTem:MEA:AUTORANGE`	Auto range. ON / OFF (1 / 0). Example: `SYSTem:MEA:AUTORANGE 1` → `1`.
`SYSTem:MEA:GFI`	Shock protection. Character, OFF (0), ON (1) or FLOAT (2). FLOAT applies to the models with floating HV output (TH9110, TH9111). Example: `SYSTem:MEA:GFI 1` → `1`.
`SYSTem:MEA:BOXNUM`	Number of scan boxes. Integer, 0–8, resolution 1. Example: `SYSTem:MEA:BOXNUM 3`; query `SYSTem:MEA:BOXNUM?` → `3`.

SECTION 8

SYSTem Subsystem — Environment Setup

Commands of the form `SYSTem:ENV:<field>` set the instrument environment. Every command except `KEYLOCK:UNLOCK` can be queried by appending `?`.

Command	Details
`SYSTem:ENV:KEYVOL`	Key sound. ON / OFF (1 / 0). Example: `SYSTem:ENV:KEYVOL 1` → `1`.
`SYSTem:ENV:BEEPVOL`	Buzzer volume. Character, 0–3: 0 = OFF, 1 = LOW, 2 = MED, 3 = HIGH. Example: `SYSTem:ENV:BEEPVOL 3` → `3`.
`SYSTem:ENV:PASSVOL`	PASS sound. ON / OFF (1 / 0). Example: `SYSTem:ENV:PASSVOL 1` → `1`.
`SYSTem:ENV:FAILVOL`	FAIL sound. ON / OFF (1 / 0). Example: `SYSTem:ENV:FAILVOL 1` → `1`.
`SYSTem:ENV:KEYLOCK`	Key lock unlock condition. Character, 0 or 1: 0 = manual, 1 = bus. Example: `SYSTem:ENV:KEYLOCK 0` → `0`.
`SYSTem:ENV:KEYLOCK:UNLOCK`	Release the key lock when the unlock condition is set to bus. Command only; no query. Example: `SYSTem:ENV:KEYLOCK:UNLOCK`.
`SYSTem:ENV:BRIght`	Display backlight brightness. Integer, 1–10. Example: `SYSTem:ENV:BRIght 5` → `5`.
`SYSTem:ENV:DATE`	System date, `<year month day>`, from 2017 1 1 to 9999 12 31. Example: `SYSTem:ENV:DATE 2017 11 17`; query returns `2017,11,17`.
`SYSTem:ENV:TIME`	System time, `<hour minute second>`, from 0 0 0 to 23 59 59. Example: `SYSTem:ENV:TIME 16 23 23`; query returns `16,23,23`.

SECTION 9

MMEM & USB Subsystems

The `MMEM` subsystem works on the internal file store and the `USB` subsystem on external (USB memory) storage. `<file name>` is a character string. None of these commands has a query form.

9.1 MMEM — internal storage

Command	Details
`MMEM:SAVE <file name>`	Save the current settings to an internal file. Returns `OK`. Example: `MMEM:SAVE TH9110TEST`.
`MMEM:LOAD <file name>`	Load the named internal file as the current settings. Returns `OK` on success, `ERROR` on failure. Example: `MMEM:LOAD TH9110TEST`.
`MMEM:DEL <file name>`	Delete the named internal file. Returns `OK` on success, `ERROR` on failure. Example: `MMEM:DEL TH9110TEST`.
`MMEM:COPY <file name>`	Copy the named internal file to external storage. Returns `OK` on success, `ERROR` on failure. Example: `MMEM:COPY TH9110TEST`.

9.2 USB — external storage

Command	Details
`USB:SAVE <file name>`	Save the current settings to a file on external storage. Returns `OK`. Example: `USB:SAVE TH9110TEST`.
`USB:LOAD <file name>`	Load the named external file as the current settings. Returns `OK` on success, `ERROR` on failure. Example: `USB:LOAD TH9110TEST`.
`USB:DEL <file name>`	Delete the named external file. Returns `OK` on success, `ERROR` on failure. Example: `USB:DEL TH9110TEST`.
`USB:COPY <file name>`	Copy the named external file to internal storage. Returns `OK` on success, `ERROR` on failure. Example: `USB:COPY TH9110TEST`.

SECTION 10

FETCh & Other Commands

10.1 FETCh — retrieving measurement results

The FETCh subsystem returns the instrument's measurement results. Send the command after a test has been started; it remains valid until the test ends or is interrupted by another command.

Command	Details
`FETCh:AUTO <ON/OFF>` `FETCh:AUTO?`	Set or query automatic return of measurement results. ON / OFF (1 / 0). By default the instrument returns each step's result automatically. Example: `FETCh:AUTO ON` → query returns `ON`.
`FETCh?`	Output the measurement results. After receiving this command, the instrument sends the results of all steps until the test ends.

Return format

```
STEP <n>:<test mode>,<test voltage (kV)>,<test current (A)>,<result>;
```

Example:

```
STEP 1:AC,1.000,1.000e-3,PASS; STEP 2:DC,1.500,0.100e-3,PASS;
```

STEP 1: AC test, actual test voltage 1 kV, actual test current 1 mA, result PASS. STEP 2: DC test, actual test voltage 1.5 kV, actual test current 0.1 mA, result PASS.

10.2 Other commands

Command	Details
`*IDN?`	Query the instrument model and firmware version. Returns `<manufacturer>,<model>,<firmware><NL^END>`: `<manufacturer>` is the manufacturer name (Tonghui); `<model>` is the instrument model (e.g. TH9110 / TH9110A); `<firmware>` is the software version (e.g. Ver1.05). Example: `*IDN?` → `Tonghui,TH9110, Ver1.05`.
`FUNC:START`	Start a test. No query form.
`*STOP`	Stop the test. No query form.

Contact, support & related documents

This command reference is the companion to the *TH9110 Series Operation Manual* (safety, installation, front-panel operation, interfaces) and the *TH9110 Series Datasheet* (specifications). For technical support, or for questions about a command, contact Techmize directly or through your authorized Techmize distributor.

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