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SCPI COMMAND REFERENCE

TH615 / TH630 Series

Companion document to the TH615/TH630 Series Operation Manual — modular cable/wiring-harness comprehensive test systems. Full remote-control SCPI command set by subsystem: test setup, test control, result query (FETCH), system, file and display commands.

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TH615 / TH630 Series SCPI Command Reference

Modular Cable / Wiring-Harness Comprehensive Test System

This document lists the remote-control SCPI command set for the TH615 and TH630 series. It is the companion to the *TH615/TH630 Series Operation Manual*, whose Chapter 10 points to this document. The command set is identical across the TH615 and TH630 platforms; where a parameter's numeric range differs by platform (e.g. high-voltage test voltage), both are given.

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All commands use the SCPI colon/root syntax described in §1. Commands are sent over whichever physical interface is active — RS232, GPIB (optional), USB, LAN or RS485 — see Operation Manual Chapter 10 for interface wiring and configuration.

SECTION 1

Conventions & Reference Tables

1.1 Syntax conventions

- Commands are ASCII and hierarchical; a command root followed by sub-nodes and an optional colon-separated index (e.g. component serial number) addresses one setting.
- A query form ends in `?` and returns the current value; the same root followed by a value sets it. Several subsystems also offer an `:ALL` bulk-set command that writes every field of one setup screen in a single comma-separated command — see each section.
- `<data>` — a value you must supply. `<sn>` — a 0-based index (component or step number). `<type>` — a fixed enumerated token (e.g. `ACW` / `DCW` / `IR`) inserted as a command node, not a data value.
- On a successful bulk-set (`:ALL`) command, the instrument returns `OK`. Individual set commands return no explicit acknowledgement unless queried back.

1.2 Pin-position numeric mapping

Several commands address a fixture pin by a single integer 1–128, used throughout the Setting, Learn-network and FETCH command sets:

Value range	Pin label
1–32	A1–A32
33–64	B1–B32
65–96	C1–C32
97–128	D1–D32

A value of `0` in this context means no pin / not used. In a `:LEARN` network-table return, the value `255` is a net separator rather than a pin position (see §5.3).

1.3 High-voltage & platform-specific ranges

The High Voltage subsystem's commands (§4.1) all take a `<type>` node of `ACW` (AC withstand voltage), `DCW` (DC withstand voltage) or `IR` (insulation resistance). The command syntax is identical on both platforms — only the acceptable numeric range for `:SETUP:HV:VOLT` differs by platform; see §4.1.

Test-voltage range for `:SETUP:HV:VOLT`: **TH630:** 5–2000 V AC / 5–3000 V DC; **TH615:** 5–1000 V AC / 5–1500 V DC.

SECTION 2

Setting Command Set — Mode & Short Break

Commands under root `:SETUP:xxx` configure the test parameters shown on the instrument's `<Setting>` page (Operation Manual Chapter 3). This section covers the Mode and Short Break (open/short, "OS") subsystems.

2.1 Mode Setting Commands (root `:SETUP:MODE:xxx`)

Command	Details
`:SETUP:MODE:WIRE?` `:SETUP:MODE:WIRE <data>`	Wire type (2-wire / 4-wire, where supported). Mirrors Operation Manual §3.1.
`:SETUP:MODE:LEGS?` `:SETUP:MODE:LEGS <data>`	Starting pin position of the test range.
`:SETUP:MODE:LEGE?` `:SETUP:MODE:LEGE <data>`	Ending pin position of the test range.
`:SETUP:MODE:TRIGM?` `:SETUP:MODE:TRIGM <data>`	Trigger mode. enum, 1 byte, 0–3: `0`=Manual, `1`=External, `2`=Bus, `3`=Auto. Example: `:SETUP:MODE:TRIGM 1` (External).
`:SETUP:MODE:DELAY?` `:SETUP:MODE:DELAY <data>`	Trigger delay. Float, 4 bytes, 0–999.9 s, resolution 0.1 s. Example: `:SETUP:MODE:DELAY 2` (2.0 s).
`:SETUP:MODE:DISPM?` `:SETUP:MODE:DISPM <data>`	Result display mode. enum, 1 byte, 0–1: `0`=Show all, `1`=Display bad only.
`:SETUP:MODE:AFAIL?` `:SETUP:MODE:AFAIL <data>`	Action after a setting failure. enum, 1 byte: `0`=All measurements completed, `1`=Stop the test, `2`=No high voltage.
`:SETUP:MODE:CK?` `:SETUP:MODE:CK <data>`	Contact check (four-wire models only — see Operation Manual §3.1). enum, 1 byte, 0–1: `0`=OFF, `1`=ON.
`:SETUP:MODE:ALL` `<Wire,LegStart,LegEnd,TrigMode,TrigDelay,DispMode,AfterFail,TouchCheck>`	Bulk-set all 8 MODE fields in one comma-separated command. Example: `:SETUP:MODE:ALL 0,1,32,0,0,0,1,1` → `OK`.

2.2 Short Break (Open/Short, "OS") Setting Commands (root `:SETUP:OS:xxx`)

Command	Details
`:SETUP:OS:RSTD?` `:SETUP:OS:RSTD <data>`	Short-break (on/off) standard resistance. Float, 4 bytes, 1–50 kΩ, resolution 1 kΩ. Example: `:SETUP:OS:RSTD 10000` (10 kΩ).
`:SETUP:OS:CSTD?` `:SETUP:OS:CSTD <data>`	One-sided sensitivity standard. Float, 4 bytes, 0–9.999 nF (unit pF in the command). Example: `:SETUP:OS:CSTD 100` (100 pF).
`:SETUP:OS:SIDE?` `:SETUP:OS:SIDE <data>`	End-edge judgment. enum, 1 byte: `0`=off, `1`=on, `2`=split edge, `3`=%.
`:SETUP:OS:SPEED?` `:SETUP:OS:SPEED <data>`	One-sided test speed. enum, 1 byte: `0`=slow, `1`=medium, `2`=fast.
`:SETUP:OS:OSTM?` `:SETUP:OS:OSTM <data>`	Momentary (instantaneous) on-off time. Float, 4 bytes, 0–999.9 s, resolution 0.1 s.
`:SETUP:OS:OPTM?` `:SETUP:OS:OPTM <data>`	Instantaneous disconnection time. Float, 4 bytes, 0–999.9 s, resolution 0.1 s.
`:SETUP:OS:DELAY?` `:SETUP:OS:DELAY <data>`	Short-break delay time. Integer, 1 byte, 1 µs–60.00 ms.
`:SETUP:OS:METH?` `:SETUP:OS:METH <data>`	Scanning method. enum, 1 byte: `0`=two-point (dichotomy/bisection) test, `1`=pair of other.
`:SETUP:OS:AFAIL?` `:SETUP:OS:AFAIL <data>`	Action after a bad (defect) result. enum, 1 byte: `0`=Null point stop, `1`=Short circuit stop, `2`=Open circuit stop, `3`=Repeat stop.
`:SETUP:OS:FAILT?` `:SETUP:OS:FAILT <data>`	Number of failures before stop. Integer, 1 byte, 1–100.

Use the individual field commands above to configure these settings; a bulk-set `:SETUP:OS:ALL` command is not documented in this edition.

SECTION 3

Setting Command Set — Conductivity & Component

3.1 Conductivity Setting Commands (root `:SETUP:COND:xxx`)

Command	Details
`:SETUP:COND:UPPER?` `:SETUP:COND:UPPER <data>`	Conduction upper limit. Float, 4 bytes, 0–950 Ω.
`:SETUP:COND:LOWER?` `:SETUP:COND:LOWER <data>`	Conduction lower limit. Float, 4 bytes, 0–950 Ω.
`:SETUP:COND:SPEC?` `:SETUP:COND:SPEC <data>`	Upper limit of instantaneous conductivity. Float, 4 bytes, 0.001–950 Ω.
`:SETUP:COND:TIME?` `:SETUP:COND:TIME <data>`	Instantaneous-on test time. Float, 4 bytes, 0–999.9 s, resolution 0.1 s.
`:SETUP:COND:SPEED?` `:SETUP:COND:SPEED <data>`	Conductivity test speed. enum, 1 byte: `0`=slow, `1`=medium, `2`=fast.
`:SETUP:COND:IFAIL?` `:SETUP:COND:IFAIL <data>`	Action on an instantaneous bad measurement. enum, 1 byte: `0`=stop the test, `1`=all tests completed.
`:SETUP:COND:OFFS?` `:SETUP:COND:OFFS <data>`	Conductivity base (offset). Float, 4 bytes, 0–10 Ω, resolution 0.1 mΩ.
`:SETUP:COND:CURR?` `:SETUP:COND:CURR <data>`	Test current. Integer, 1 byte, 0–20 mA.
`:SETUP:COND:BAL?` `:SETUP:COND:BAL <data>`	Conductivity balance. Float, 4 bytes, 0–9.999 Ω.
`:SETUP:COND:UBUF` `<data1,data2,…,datan>`	Upper conductivity-limit list (per-net array). Float array, 0–950 Ω, resolution 1 mΩ. Example: `:SETUP:COND:UBUF 1.0,1.1,1.2,1.3,1.4` → `OK`.
`:SETUP:COND:LBUF` `<data1,data2,…,datan>`	Lower conductivity-limit list (per-net array). Same range/resolution as `UBUF`.

Use the individual field commands above to configure these settings; a bulk-set `:SETUP:COND:ALL` command is not documented in this edition.

3.2 Component (Passive/LCR) Setting Commands (root `:SETUP:LCR:xxx:<sn>`)

All commands in this subsystem address one component by its serial number `<sn>` (0-based index). `PIN1` and `SPEC` accept `<sn>` 0–200; the remaining commands in this subsystem (`TYPE` , `PIN2` , `OFFS` , `ADDI` , `ALL`) use `<sn>` 0–63.

Command	Details
`:SETUP:LCR:TYPE:<sn>?` `:SETUP:LCR:TYPE:<sn>:<data>`	Component type. `sn`: int, 0–63. `data`: enum, 1 byte: `0`=none, `1`=Inductance, `2`=Capacitance, `3`=Resistance, `4`=Diode, `5`=Capacitance polarity, `6`=Voltage drop, `7`=Diode reverse leakage current, `8`=Resistance sum, `9`=Resistance difference, `10`=Welding resistance, `11`=Temperature (PT100/500), `12`=NTC resistance, `13`=NTC temperature, `14`=Temperature difference. Example: `:SETUP:LCR:TYPE:0:2` (component 1 = capacitance).
`:SETUP:LCR:PIN1:<sn>?` `:SETUP:LCR:PIN1:<sn>:<data>`	Pin+ position. `sn`: int, 0–200. `data`: int 1–128, pin mapping per §1.2. Example: `:SETUP:LCR:PIN1:0:1` (A1).
`:SETUP:LCR:PIN2:<sn>?` `:SETUP:LCR:PIN2:<sn>:<data>`	Pin− position. `sn`: int, 0–63. Same data range/mapping as `PIN1`.
`:SETUP:LCR:SPEC:<sn>?` `:SETUP:LCR:SPEC:<sn>:<data>`	Component nominal specification. `sn`: int, 0–200. `data`: float, 4 bytes, unit H/F/Ω/V depending on type. Example: `:SETUP:LCR:SPEC:0:100` → returned as `1.000e+02`.
`:SETUP:LCR:OFFS:<sn>?` `:SETUP:LCR:OFFS:<sn>:<data>`	Component tolerance. `data`: float, 4 bytes, 0–0.99 (i.e. 0–99%); special codes `100`=≤standard value, `110`=≥standard value. Example: `:SETUP:LCR:OFFS:0:0.1` (±10%).
`:SETUP:LCR:ADDI:<sn>?` `:SETUP:LCR:ADDI:<sn>:<data>`	Additional parameter — only valid for diode, capacitance-polarity and voltage-drop types (e.g. diode test time). `sn`: int, 0–63. `data`: float, 4 bytes.
`:SETUP:LCR:ALL:<sn>` `<Type,Pin+,Pin-,Spec,Tolerance,Additional>`	Bulk-set all 6 fields of one component. Example: `:SETUP:LCR:ALL:0 2,1,2,0.0000001,0.1,0` → `OK` (component 1: capacitance, A1/A2, 100 nF, ±10%, no additional parameter).

SECTION 4

Setting Command Set — High Voltage & Item

4.1 High Voltage Setting Commands (root `:SETUP:HV:xxx:<type>`, `<type>` = `ACW` | `DCW` | `IR`)

Command	Details
`:SETUP:HV:VOLT:<type>?` `:SETUP:HV:VOLT:<type>:<data>`	Test voltage. Float, 4 bytes, unit V. **TH630:** 5–2000 V AC / 5–3000 V DC. **TH615:** 5–1000 V AC / 5–1500 V DC (see §1.3). Example: `:SETUP:HV:VOLT:ACW:100`.
`:SETUP:HV:SPEC:<type>?` `:SETUP:HV:SPEC:<type>:<data>`	Test specification (pass/fail threshold). Float, 4 bytes, unit A (ACW/DCW) or Ω (IR). Example: `:SETUP:HV:SPEC:ACW:0.001` (1 mA).
`:SETUP:HV:TIME:<type>?` `:SETUP:HV:TIME:<type>:<data>`	Test time. Float, 4 bytes, 1–50000, unit 0.01 s (i.e. 0.01–500 s).
`:SETUP:HV:RISE:<type>?` `:SETUP:HV:RISE:<type>:<data>`	Rise time. Float, 4 bytes, 0–999.9, unit 0.1 s.
`:SETUP:HV:ARC:<type>?` `:SETUP:HV:ARC:<type>:<data>`	Arc-detection sensitivity. Integer, 1 byte, 0–7 (`0`=off, 1–7=sensitivity level).
`:SETUP:HV:METH:<type>?` `:SETUP:HV:METH:<type>:<data>`	Test method. enum, 1 byte: `0`=Dichotomous (bisection), `1`=pair other, `2`=automatic, `3`=all-to-ground, `4`=product grouping, `5`=odd-to-even, `6`=odd-up-down.
`:SETUP:HV:EMPT:<type>?` `:SETUP:HV:EMPT:<type>:<data>`	Null-point (empty-point) test. enum, 1 byte: `0`=off, `1`=on.
`:SETUP:HV:GND:<type>?` `:SETUP:HV:GND:<type>:<data>`	Ground pin position. Integer, 1 byte, 1–128, pin mapping per §1.2.
`:SETUP:HV:GVOLT:<type>?` `:SETUP:HV:GVOLT:<type>:<data>`	Ground voltage. Float, 4 bytes, 5–1000 V AC / 5–1500 V DC, unit V.
`:SETUP:HV:GSPEC:<type>?` `:SETUP:HV:GSPEC:<type>:<data>`	Ground specification (threshold). Float, 4 bytes, 1.0 µA–10.00 mA (ACW/DCW) or 0.100 MΩ–10.00 GΩ (IR).
`:SETUP:HV:GTIME:<type>?` `:SETUP:HV:GTIME:<type>:<data>`	Ground time. Float, 4 bytes, unit 0.01 s.

Command	Details
`:SETUP:HV:ACW <Volt,Time,Spec,Method,Arc,Rise,NullPt,GndPin,GndVolt,GndTime,GndSpec>`	Bulk-set all 11 ACW fields in one command (no `:type` node needed — targets ACW directly). Example: `:SETUP:HV:ACW 500,1,0.001,1,0,0,0,0,50,1,0` → `OK`.
`:SETUP:HV:DCW <…same 11 fields…>`	Bulk-set all 11 DCW fields, same field order as `ACW`.
`:SETUP:HV:IR <…same 11 fields…>`	Bulk-set all 11 IR fields, same field order (Spec field in Ω, e.g. `1.00E6` = 1 MΩ).

4.2 Project (Item) Setting Commands (root `:SETUP:ITEM:xxx`)

Enables or disables which test items run for the current file.

Command	Details
`:SETUP:ITEM:OS?` `:SETUP:ITEM:OS <data>`	Enable/disable the short-break (open/short) test item. enum, 1 byte: `0`=off, `1`=on.
`:SETUP:ITEM:COND?` `:SETUP:ITEM:COND <data>`	Enable/disable the conductivity test item. Same encoding.
`:SETUP:ITEM:LCR?` `:SETUP:ITEM:LCR <data>`	Enable/disable the passive-component (LCR) test item. Same encoding.
`:SETUP:ITEM:ACW?` `:SETUP:ITEM:ACW <data>`	Enable/disable the AC withstand-voltage test item. Same encoding.
`:SETUP:ITEM:DCW?` `:SETUP:ITEM:DCW <data>`	Enable/disable the DC withstand-voltage test item. Same encoding.
`:SETUP:ITEM:IR?` `:SETUP:ITEM:IR <data>`	Enable/disable the insulation-resistance test item. Same encoding.

Use the individual field commands above to configure these settings; a bulk-set `:SETUP:ITEM:ALL` command is not documented in this edition.

SECTION 5

Test Command Set

Starts, stops and learns the test network. These commands require the trigger mode to be set to Bus (`:SETUP:MODE:TRIGM 2` , §2.1) unless noted.

Command	Details
`:TRIG` `:START`	Start the test (bus-trigger mode required). The two command forms are equivalent.
`:STOP`	Stop the test. If the instrument is mid-test, testing stops; if idle, it returns to the main screen. No parameters.
`:LEARN`	Run a learning scan of the connected DUT (bus-trigger mode required) and return the learned short/open network table once complete. No parameters.

5.1 :LEARN return-data format

The raw return is a comma-separated list of integers. `255` marks the boundary between nets; `0` is a null/unused position and is discarded. The values between two `255` markers are the pins making up that net, using the pin mapping in §1.2.

Step	Example
1. Raw return (excerpt)	`255,1,2,255,3,4,255,5,6,…,255,31,32,0,0,0,…`
2. Split on `255`	`1,2` · `3,4` · `5,6` ·…· `31,32`
3. Map pin numbers (§1.2)	A1,A2 · A3,A4 · A5,A6 · … · A31,A32
4. Resulting network list	Net 1: A1–A2, Net 2: A3–A4, …, Net 16: A31–A32

SECTION 6

FETCH Command Set

Nineteen read-only query commands for retrieving test results, statistics, file listings and the active test network. All judge/pass-fail fields use `1` =pass, `2` =fail.

6.1 Per-item result queries

Command	Details
`:FETCH:COND?`	Conductivity test results. Returns `Judge1,data1;Judge2,data2;…` — data in %.2e scientific notation, unit Ω. Example: `1,1.01E+01;1,1.00E+01;9.99E+00` → net 1 10.1 Ω pass, net 2 10.0 Ω pass, net 3 9.99 Ω.
`:FETCH:ICOND?`	Instantaneous conductivity test results. Same format/unit as `COND?`.
`:FETCH:ICMAX?`	Maximum conductivity value per net during an instantaneous test. Returns `data1;data2;…`, %.4e, unit Ω (no judge field).
`:FETCH:ICMIN?`	Minimum conductivity value per net during an instantaneous test. Same format as `ICMAX?`.
`:FETCH:ACW?`	AC withstand-voltage results. Returns `Judge,data;…`, %.2e, unit A (leakage current).
`:FETCH:DCW?`	DC withstand-voltage results. Same format/unit (A) as `ACW?`.
`:FETCH:IR?`	Insulation-resistance results. Returns `Judge,data;…`, %.2e, unit Ω.
`:FETCH:OS?`	Short-break (open/short) results. Returns `item,pin1,pin2,data,judge;…`; item ∈ {0=Empty,1=Normal short,18=Short circuit,19=Open circuit,21=Mismatch}; data is always 0 (no test data for short-break items).

6.2 Auto-notify & combined result queries

Command	Details
`:FETCH:AUTO?` `:FETCH:AUTO <data>`	Auto end-of-test notification (sends a message on the RS232 port automatically). enum, 1 byte, 0–3: `0`=off, `1`=return "EOM" at test end, `2`=return all test data at test end, `3`=during an instantaneous-conductivity test, return all conductivity data as it runs.

Command	Details
`:FETCH:ALL <step>?`	Query test data/results for all enabled test items in one call. `step`: `0` for an ordinary single-test file; for a step-by-step (sequence) file, `0`=first step, `1`=second step, etc. Returns one line per tested net: `item,pin1,pin2,data,judge;…` — see §6.3 for the `item` code table. `data`: %.3e scientific notation (meaningless/0 for short-break items). Example query: `:FETCH:ALL 0?`.
`:FETCH:NCOND?`	Conductivity-only subset of `:FETCH:ALL` (item code fixed at 4). Returns `4,pin1,pin2,data,judge;…` per net.
`:FETCH:CROSS?`	Query mismatched-pin positions found during the test. Returns `0` if none, else `pinA,pinB;pinC,pinD;…` pairs (pin labels, e.g. `A01,B02;A02,B01`).
`:FETCH:STAT?`	Query run statistics. Returns `total,pass,fail`, e.g. `64,58,6`.
`:FETCH:FILE?`	List files stored in the instrument's internal memory. Returns comma-separated filenames, e.g. `1.wire,2.wire`.
`:FETCH:USB?`	List files on the inserted USB flash drive. Same return format as `FILE?`.
`:FETCH:ITEM?`	Query which test items are enabled for the current file. Returns 9 comma-separated 0/1 flags in order: short break, conductivity, passive element, AC withstand voltage, DC withstand voltage, insulation resistance, instantaneous short break, instantaneous break, instantaneous conduction. Example: `1,1,0,0,0,0,0,0,0` → short break + conductivity enabled.
`:FETCH:NET:COND?`	Query the conductivity test network (pin pairs). Returns `pin1,pin2;pin1,pin2;…` (numeric, §1.2 mapping), e.g. `1,33;2,34;3,35` → A01–B01, A02–B02, A03–B03.
`:FETCH:NET:HV?`	Query the high-voltage test network. Same pin-pair format as `NET:COND?`.
`:FETCH:NET:LCR?`	Query the passive-component test network, prefixed with the component type code (§3.2 `TYPE` enum). Returns `type,pin1,pin2;…`, e.g. `2,1,33;3,2,34` → capacitance A01–B01, resistance A02–B02.

6.3 `:FETCH:ALL` test-item code table

Used by the `item` field of `:FETCH:ALL <step>?` (§6.2):

Code	Item	Code	Item
0	Empty	16	Insulation resistance — dichotomy
1	Normal short circuit	17	Insulation resistance — pair other
2	Instantaneous short circuit	18	Short circuit
3	Instantaneous circuit break	19	Open circuit
4	Normal conductivity resistance	20	Spot test short circuit
5	Instantaneous conductivity resistance	21	Mismatch / misalignment
6	Passive components — inductive	22	Instantaneous conduction failure
7	Passive components — capacitive	23	Instantaneous short circuit
8	Passive components — resistive	24	Instantaneous open circuit
9	Passive components — diodes	25	Instantaneous mismatch
10	Passive components — capacitive polarity	26	AC withstand voltage — all-to-ground
11	Passive components — voltage drop	27	DC withstand voltage — all-to-ground
12	AC withstand voltage — dichotomy	28	Insulation resistance — all-to-ground
13	AC withstand voltage — pair other	29	Dynamic resistance
14	DC withstand voltage — dichotomy	30	Passive components — diode leakage current
15	DC withstand voltage — pair other		

SECTION 7

System Command Set

System-level settings corresponding to the instrument's `<SYS>` page (Operation Manual Chapter 8).

7.1 Test System Command (root `:SYS:MEAS:xxx`)

Command	Details
`:SYS:MEAS:MEASM?` `:SYS:MEAS:MEASM <data>`	Test mode. enum, 1 byte: `0`=normal test, `1`=repeated test, `2`=cyclic test.
`:SYS:MEAS:RPT?` `:SYS:MEAS:RPT <data>`	Number of retests (repeat count). Integer, 1 byte, 0–999.
`:SYS:MEAS:INTV?` `:SYS:MEAS:INTV <data>`	Retest interval. Float, 4 bytes, 0–999.9 s, resolution 0.1 s.
`:SYS:MEAS:PROGM?` `:SYS:MEAS:PROGM <data>`	Cycle (sequence) measurement trigger method. enum, 1 byte: `0`=key trigger, `1`=continuous trigger, `2`=automatic trigger.
`:SYS:MEAS:PIN?` `:SYS:MEAS:PIN <data>`	Action after a spot-test failure. enum, 1 byte: `0`=repeat test, `1`=next test.
`:SYS:MEAS:EARLY?` `:SYS:MEAS:EARLY <data>`	Premature-unplugging detection. enum, 1 byte: `0`=off, `1`=on.
`:SYS:MEAS:PULL?` `:SYS:MEAS:PULL <data>`	Unplugging check (DUT must be removed before the next test can start). enum, 1 byte: `0`=off, `1`=on.
`:SYS:MEAS:PINS?` `:SYS:MEAS:PINS <data>`	Number/percentage of inserted pins required to auto-start a test. enum, 1 byte: `0`=null point test (disabled), `1`=Slot A start-up, `2`=Slot B start-up, `3`=Slot C start-up, `4`=Slot D start-up, `5`…`14`=10%…100% start-up (step 10%). Example: `:SYS:MEAS:PINS?` → `50` (test starts once 50% of pins are detected).

7.2 Environmental System Command (root `:SYS:ENVI:xxx`)

Command	Details
`:SYS:ENVI:KEYV?` `:SYS:ENVI:KEYV <data>`	Key-press sound. enum, 1 byte: `0`=off, `1`=on.
`:SYS:ENVI:VOLM?` `:SYS:ENVI:VOLM <data>`	Buzzer volume. enum, 1 byte: `0`=off, `1`=low, `2`=medium, `3`=high.
`:SYS:ENVI:KLOCK?` `:SYS:ENVI:KLOCK <data>`	Key-lock mode. enum, 1 byte: `0`=Manual, `1`=Bus.
`:SYS:ENVI:PASSV?` `:SYS:ENVI:PASSV <data>`	Pass (qualified) sound. enum, 1 byte: `0`=off, `1`=on.
`:SYS:ENVI:FAILV?` `:SYS:ENVI:FAILV <data>`	Fail (bad) sound. enum, 1 byte: `0`=off, `1`=on.
`:SYS:ENVI:BRI?` `:SYS:ENVI:BRI <data>`	Screen brightness. Integer, 1 byte, 1–10.
`:SYS:ENVI:DATE?` `:SYS:ENVI:DATE <year>,<month>,<day>`	System date. `year`: int, 2 bytes, 1000–9999. `month`: int, 1–12. `day`: int, 1–31. Example: `:SYS:ENVI:DATE 2026,10,30`.
`:SYS:ENVI:TIME?` `:SYS:ENVI:TIME <hour>,<min>,<sec>`	System time. `hour`: 0–23. `min`/`sec`: 0–59. Example: `:SYS:ENVI:TIME 17,0,0` (17:00:00).

> **NOTE — SYSTEM LANGUAGE COMMAND**
>
> Neither the Setting nor the System command set provides a command for the display language; the language setting (Operation Manual §8.2) is changed from the front panel only.

SECTION 8

File, DISPlay, Other & Public Command Sets

8.1 File Command Set (root `:FILE:xxx`)

Command	Details
`:FILE:SAVE <name>`	Save current settings as a named file. `name`: string, max 10 bytes. Returns `OK` on success.
`:FILE:LOAD <name>`	Load/import a named file. Returns `OK` on success.
`:FILE:DEL <name>`	Delete a named file. Returns `OK` on success.
`:FILE:SEND`	Send a binary setup file (up to ~6000 bytes) from the PC to the instrument, writing it as the current file. Returns `OK` on success, `Error` on failure.
`:FILE:RECE <sn>?`	Read a setup file from the instrument to the PC. `sn`: int, 0–100 (`0`=current file, 1–100=archive slot number). Returns up to 6000 bytes of binary content.
`:FILE:NAME?`	Read the current file's name. Returns a string, e.g. `AMO`.

8.2 DISP Command Set

Command	Details
`:DISP <data>`	Switch the active display page. enum, 1 byte: `OFF`=turn off display, `ON`=turn on display, `MAIN`=main interface, `MEAS`=test interface, `SETUP`=setup interface, `LEARN`=learning interface, `STAT`=statistics interface, `FILE`=file interface, `SYS`=system interface, `UTIL`=auxiliary (UTILI) interface. Example: `:DISP MEAS`.

8.3 Other Command Set

Command	Details
`:STAT:CLEAR`	Zero all statistical data (total, pass, fail, yield). No parameters.

8.4 Public Command Set

Command	Details
`*IDN?`	Query the instrument model and firmware version. Returns a string, e.g. `TH630 Ver 1.00`.
`*TRG`	Start the test and automatically return the test data once complete — combines `:TRIG/:START` (§5) with an automatic result fetch. No parameters.

> **NOTE**
>
> Command syntax is identical for TH615 and TH630; only the numeric ranges noted in §1.3 and §4.1 vary by platform.

Contact & support

This command reference is the companion to the *TH615/TH630 Series Operation Manual* (front-panel operation, interface wiring) and the *TH600 Series Datasheet* (specifications). For questions about any command's exact behaviour, or to report a discrepancy against your instrument's firmware, contact Techmize using the details below.

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