

**Aumictech**

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Data Sheet

August 6, 2026

KEITHLEY

Keithley 705 Data Acquisition Mainframe

The Keithley 705 is an IEEE-488 programmable scanner mainframe for automated switching and data-acquisition interconnect. Holds two plug-in scanner cards; daisy-chain up to four slave 705 units with one master for expansion (up to ~100 2-pole channels class). Programmable scan rate from 10 ms (100 channels/s) to 999.999 s. Battery-backed clock/calendar; digital I/O; front-panel programs for address, dwell, store/recall, pole mode. Automated multi-channel switching; thermocouple/low-level scanning with optional cards; IEEE-488 test systems. Manufacturer: Keithley Instruments (Tektronix) Instrument Type: Scanner / Switching Mainframe 2 cards/mainframe; scan 10 ms–999.999 s; IEEE-488 Prefer Keithley Model 705 instruction manual 705-901-01F. User title “Data Acquisition Mainframe” refers to this scanner mainframe role.

No photo

MODEL

Keithley 705

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

705

LISTING

**Off-catalog — OEM dat
asheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

Features & description

From manufacturer datasheet

Features

- Capacity: 2 plug-in cards per mainframe
- Expansion: daisy-chain 1 master + 4 slaves
- Switching rate: 10 ms to 999.999 s (programmable); 100 ch/s max class
- Relay drive: 350 mA minimum
- Pole modes: 1-, 2-, or 4-pole (card dependent; e.g. 20 ch 1-pole / 10 ch 4-pole with two cards)
- IEEE-488 bus control
- Internal clock: time/date; <1 min/month typical error; NiCd backup ~1 month retention
- Digital I/O: 8 in / 8 out class
- Optional cards: 7055, 7056 GP, 7057 thermocouple, 7058 low voltage/current, 7053 high current, etc.

705 Characteristics / Specifications

PARAMETER	VALUE
Model	705
Manufacturer	Keithley Instruments (Tektronix)
Instrument Type	Scanner / Switching Mainframe
Alias	705; Keithley 705 Switching 2 cards/mainframe; scan 10 ms–999.999 s; IEEE-488 Operational Notes Prefer Keithley Model 705 instruction manual 705-901-01F. User title “Data Acquisition Mainframe” refers to this scanner mainframe role.
Capacity	2 plug-in cards per mainframe
Expansion	daisy-chain 1 master + 4 slaves
Switching rate	10 ms to 999.999 s (programmable); 100 ch/s max class
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Digital I/O	8 in / 8 out class
Optional cards	7055, 7056 GP, 7057 thermocouple, 7058 low voltage/current, 7053 high current, etc.

705 Specifications

PARAMETER	VALUE
Keithley 705 Data Acquisition Mainframe	Overview
Applications	Automated multi-channel switching; thermocouple/low-level scanning with optional cards; IEEE-488 test systems.
Key Features	- Capacity: 2 plug-in cards per mainframe
Technical Specifications	Model: 705
Switching	2 cards/mainframe; scan 10 ms–999.999 s; IEEE-488
Operational Notes	Prefer Keithley Model 705 instruction manual 705-901-01F. User title “Data Acquisition Mainframe” refers to this scanner mainframe role.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Specifications

PARAMETER	VALUE
Model	705
Manufacturer	Keithley Instruments (Tektronix)
Instrument Type	Scanner / Switching Mainframe
Alias	705; Keithley 705

Switching

2 cards/mainframe; scan 10 ms-999.999 s; IEEE-488

Operational Notes

Prefer Keithley Model 705 instruction manual 705-901-01F. User title "Data Acquisition Mainframe" refers to this scanner mainframe role.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
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<https://aumictechlabs.com>

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.