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**Data Sheet**

August 2, 2026

KEITHLEY

## Keithley 7702 – Data Logger

The Keithley 7702 (7702) is a 40-channel differential multiplexer plug-in module for Keithley Integra Series and DAQ6510 mainframes—not a standalone data logger. It provides 40 channels of 2-pole or 20 channels of 4-pole latching electromechanical multiplexing plus two dedicated current channels (41–42) on screw terminals. High-channel-count scanning in Integra/DAQ6510 data acquisition systems; production test requiring differential or 4-pole switching; current measurement paths on dedicated channels 41–42; automated switching for multi-point voltage and resistance measurements. Maximum Signal Level (channels 1–40): 300 V DC or rms; 1 A switched; 60 W; 125 VA maximum Maximum Signal Level (channels 41–42): 60 V DC; 30 V rms; 3 A Specified for 0°C to 50°C operating per Keithley Integra/7700-series environmental specifications. Multiplexer and current channels referenced per module isolation and mainframe grounding architecture. Catalog listings may title this product as a "Data Logger," but the OEM 7702 is a multiplexer module that installs in an Integra or DAQ6510 mainframe—it does not log data independently. Confirm mainframe model compatibility (2700/2701/2750/2790/DAQ6510) before ordering. Minimum contact life signal level 10 mV, 10  $\mu$ A for latching relay wear specifications. Verify screw-terminal wiring and channel assignment (1–40 mux, 41–42 current) before energizing high-volt

No photo

MODEL

**Keithley 7702**

CALIBRATION

**N/A — off-catalog  
OEM datasheet**

CONDITION

**See OEM  
documentation**

STATUS

**Not listed on  
Aumictech  
inventory**

RFQ / SKU

**7702**

LISTING

**Off-catalog — OEM dat  
asheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

## Features & description

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From manufacturer datasheet

### Features

- 40 channels of 2-pole or 20 channels of 4-pole multiplexer switching • 2 dedicated current channels (41–42) • Latching electromechanical relays • Screw-terminal connections • Actuation time less than 3 ms • Channels 1–40 rated 300 V, 1 A, 60 W, 125 VA maximum • Current channels rated 60 V DC, 30 V rms, 3 A • Compatible with Integra 2700, 2701, 2750, 2790, and DAQ6510

## 7702 Characteristics / Specifications

| PARAMETER                      | VALUE                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Keithley 77                    | Data Logger Overview The Keithley 7702 (7702) is a 40-channel differential multiplexer plug-in module for Keithley Integra Series and DAQ6510 mainframes—not a standalone data logger. It provides 40 channels of 2-pole or 20 channels of 4-pole latching electromechanical multiplexing plus two dedicated current channels (41–42) on screw terminals. |
| Model                          | 7702                                                                                                                                                                                                                                                                                                                                                      |
| Manufacturer                   | Keithley (Tektronix/Keithley)                                                                                                                                                                                                                                                                                                                             |
| Instrument Type                | 40-Channel Differential Multiplexer Module                                                                                                                                                                                                                                                                                                                |
| Series                         | 7700-Series Plug-In Module                                                                                                                                                                                                                                                                                                                                |
| Compatible Mainframes          | Keithley 2700, 2701, 2750, 2790; DAQ6510                                                                                                                                                                                                                                                                                                                  |
| Multiplexer Channels           | 40 × 2-pole or 20 × 4-pole (channels 1–40)                                                                                                                                                                                                                                                                                                                |
| Current Channels               | 2 (channels 41–42)                                                                                                                                                                                                                                                                                                                                        |
| Relay Type                     | Latching electromechanical                                                                                                                                                                                                                                                                                                                                |
| Actuation Time                 | less than 3 ms                                                                                                                                                                                                                                                                                                                                            |
| Maximum Signal Level (channels | 40): 300 V DC or rms; 1 A switched; 60 W; 125 VA maximum                                                                                                                                                                                                                                                                                                  |
| Connector Type                 | Screw terminal Standard Operating Conditions Specified for 0°C to 50°C operating per Keithley Integra/7700-series environmental specifications. Multiplexer and current channels referenced per module isolation and mainframe grounding architecture.                                                                                                    |

# 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                 | 7702                                       |
| Manufacturer          | Keithley (Tektronix/Keithley)              |
| Instrument Type       | 40-Channel Differential Multiplexer Module |
| Series                | 7700-Series Plug-In Module                 |
| Compatible Mainframes | Keithley 2700, 2701, 2750, 2790; DAQ6510   |
| Multiplexer Channels  | 40 × 2-pole or 20 × 4-pole (channels 1-40) |
| Current Channels      | 2 (channels 41-42)                         |
| Relay Type            | Latching electromechanical                 |
| Actuation Time        | less than 3 ms                             |

Maximum Signal Level (channels 1-40): 300 V DC or rms; 1 A switched; 60 W; 125 VA maximum  
Maximum Signal Level (channels 41-42): 60 V DC; 30 V rms; 3 A  
Connector Type: Screw terminal

Standard Operating Conditions  
Specified for 0°C to 50°C operating per Keithley Integra/7700-series environmental specifications.  
Multiplexer and current channels referenced per module isolation and mainframe grounding architecture.

Operational Notes  
Catalog listings may title this product as a "Data Logger," but the OEM 7702 is a multiplexer module that installs in an Integra or DAQ6510 mainframe—it does not log data independently. Confirm mainframe model compatibility (2700/2701/2750/2790/DAQ6510) before ordering. Minimum contact life signal level 10 mV, 10 µA for latching relay wear specifications. Verify screw-terminal wiring and channel assignment (1-40 mux, 41-42 current) before energizing high-voltage paths.

### 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](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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NIST-traceable calibration · SAM registered ·  
30-day returns  
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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.