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Data Sheet
August 1, 2026

TIME ELECTRONICS

Time Electronics 9811 Porgrammable Resistance,100R,10K,1M / As Is with No Return

Time Electronics 9811 IEEE Programmable Resistance The Time Electronics 9811 isaprogrammable resistance and potential-divider instrument covering 0 to 1 MOhm with 1 ohm resolution. It supports full manual front-panel control via thumbwheel switches and a 6-digit LCD, plus remote programming over IEEE-488 / GPIB. Construction isastandard 19-inch Euroframe with plug-in modules for serviceability. The product is listed by Time Electronics as discontinued; the specifications below follow the manufacturer 9811 datasheet. The Time Electronics 9811 isaprogrammable resistance and potential-divider instrument covering 0 to 1 MOhm with 1 ohm resolution. It supports full manual front-panel control via thumbwheel switches and a 6-digit LCD, plus remote programming over IEEE-488 / GPIB. Construction isastandard 19-inch Euroframe with plug-in modules for serviceability. The product is listed by Time Electronics as discontinued; the specifications below follow the manufacturer 9811 datasheet. Automated and manual resistance simulation, calibration of ohmmeters and DMM resistance functions, ratio/potential-divider applications, and ATE stimulus whereaprogrammable resistance decade with GPIB control is required. Local mode is useful during system design, checkout, and maintenance.

MODEL **Time Electronics 9811**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **9811**	LISTING **https://aumictechlabs.com/products/9811-2/**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Time Electronics 9811 is a programmable resistance instrument designed for automated testing and calibration environments. It has selectable resistance values from 1 Ω to 1 MΩ with 1 Ω resolution and 0.01% accuracy. The unit operates via manual front-panel control or remote IEEE-488/GPIB commands, making it suitable for both standalone and integrated rack-mount applications.Technical Specifications Resistance range: 1 Ω to 1 MΩ Selectable values: 100 Ω, 10 kΩ, 1 MΩ Resolution: 1 Ω Accuracy: 0.01% Residual resistance: 5 mΩ per decade Display: 6-digit LCD Bus isolation: Up to 350 V AC/DC Contact type: Double pole gold contactsKey Features Dual-mode operation: manual via thumbwheel switches or remote via IEEE bus IEEE-488/GPIB/IEC/HPIB interface with selectable device address (0–31) Programmable as standard resistance or potential divider Hexadecimal programming support for ratio-divider mode (0–15 per bank) Front-panel readback capability from remote mode Group Execute Trigger (G.E.T.) command support Configurable readback terminator for compatibility with different IEEE controllers 19-inch Euroframe construction with plug-in modular design Rack-mountable or freestanding case operationTypical Applications Automated test and measurement systems requiring precision resistance insertion, equipment calibration platforms, potential divider configurations, and remote resistance control in laboratory or production environments.Compatibility & Integration Standard 24-pin IEEE-488 connector. Commands transmitted in Ohms (direct mode) or hexadecimal format (divider mode) with carriage return or line-feed terminator. Supports local/remote mode switching and command execution on G.E.T. trigger. Operates best in dust-free, temperature-stable environments with shielding from direct sunlight and thermal EMF sources.

Features & description

From manufacturer datasheet

Features

• Resistance range 0 to 1 MOhm • Resolution 1 ohm • Accuracy 0.01% on most decades (see decade table) • IEEE-488 / GPIB / IEC / HPIB remote control with local thumbwheel operation • 6-digit LCD continuous display of resistance • Tapped output for potential-divider / ratio use • Bus isolation up to 350 V AC/DC between outputs and bus • Double-pole gold contacts for reliability • Rack-mount or optional bench case

9811 Characteristics / Specifications

PARAMETER	VALUE
Model	9811
Manufacturer	Time Electronics
Instrument Type	IEEE programmable resistance / potential divider
Resistance Range	0 to 1 MOhm
Resolution	1 ohm
Residual Resistance	5 mOhm per decade
Temperature Coefficient	Less than 50 ppm perCPower Rating: 0.3 W per resistor
Maximum Current	1 A subject to resistor power limits
Maximum Voltage	250 V
Operation Time	Less than 5 ms
Thermal EMFs	Less than 2 microvolts
Contacts	Double-pole gold contacts Decade Sections (12 Rear Panel Terminals) 0 to 9 ohm in 1 ohm steps 0 to 90 ohm in 10 ohm steps 0 to 900 ohm in 100 ohm steps 0 to 9 kohm in 1 kohm steps 0 to 90 kohm in 10 kohm steps 0 to 900 kohm in 100 kohm steps
All other decades	+/-0.01% Interface
Interface Type	IEEE488 / GPIB / IEC / HPIB
Device Address	Rear-panel switch 0 to 31
Bus Connection	Standard 24-pin IEEE488
Bus Isolation	Outputs isolated from the bus up to 350 V AC/DC
Programming	Resistance in ohms followed by carriage return; hexadecimal programming for full divider ratios; local/remote commands; Group Execute Trigger support General
Power	110 V / 220 V / 240 V AC, 50/60 Hz; about 30 W
Operating Temperature	0 to 45 C
Dimensions (Rack)	480 × 240 × 130 mm
Dimensions (Bench)	494 × 374 × 154 mm

PARAMETER	VALUE
Weight	5.5 kg rack version; 10 kg bench version

General Specifications & Supplementary Characteristics

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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 below follow the manufacturer 9811 datasheet.

Applications
Automated and manual resistance simulation, calibration of ohmmeters and DMM resistance functions, ratio/potential-divider applications, and ATE stimulus whereaprogrammable resistance decade with GPIB control is required. Local mode is useful during system design, checkout, and maintenance.

Key Features
- Resistance range 0 to 1 MOhm
- Resolution 1 ohm
- Accuracy 0.01% on most decades (see decade table)
- IEEE-488 / GPIB / IEC / HPIB remote control with local thumbwheel operation
- 6-digit LCD continuous display of resistance
- Tapped output for potential-divider / ratio use
- Bus isolation up to 350 V AC/DC between outputs and bus
- Double-pole gold contacts for reliability
- Rack-mount or optional bench case

Technical Specifications

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Decade Sections (12 Rear Panel Terminals)
0 to 9 ohm in 1 ohm steps
0 to 90 ohm in 10 ohm steps
0 to 900 ohm in 100 ohm steps
0 to 9 kohm in 1 kohm steps
0 to 90 kohm in 10 kohm steps
0 to 900 kohm in 100 kohm steps

Accuracy By Decade
1 ohm decade: +/-0.5%
10 ohm decade: +/-0.05%
All other decades: +/-0.01%

Interface

Specifications

PARAMETER	VALUE
Interface Type	IEEE488 / GPIB / IEC / HPIB
Device Address	Rear-panel switch 0 to 31
Bus Connection	Standard 24-pin IEEE488
Bus Isolation	Outputs isolated from the bus up to 350 V AC/DC
Programming	Resistance in ohms followed by carriage return; hexadecimal programming for full divider ratios; local/remote commands; Group Execute Trigger support

General

Specifications

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Operating Temperature	0 to 45 C
Dimensions (Rack)	480 x 240 x 130 mm

PARAMETER	VALUE
Dimensions (Bench)	494 x 374 x 154 mm
Weight	5.5 kg rack version; 10 kg bench version

Options: Bench case (9047); NPL-traceable or UKAS calibration certificates

Ordering (Historical)
9811 Programmable Resistance (1 ohm to 1 MOhm)

Operational Notes
Observe power and voltage limits on each decade. For divider use, follow hexadecimal bank programming as described in the datasheet. Keep thermal EMFs low with proper connection practices. This datasheet content excludes sales conditions such as "as is / no return."

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

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

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