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Data Sheet

August 15, 2026

IET LABS INC

IET Labs Inc 2PRS-F-4-1-2IEEE-2D-RM

IET Labs Inc Calibration Equipment. Accuracy: $\pm(0.05\% + 15 \text{ m}\Omega)$ after zero resistance subtra.

**MODEL****IET Labs Inc 2PRS-F-4-1-2IEEE-2D-RM****CALIBRATION****Available on request****CONDITION****Used****STATUS****In stock****RFQ / SKU****2PRS-F-4-1-2IEEE-2D-RM****LISTING**<https://aumictechlabs.com/products/2prs-f-4-1-2ieee-2d-rm-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The IET Labs Inc 2PRS-F-4-1-2IEEE-2D-RM is a programmable resistance substitution unit engineered for precision calibration and metrology. It delivers stable, traceable resistance values across a wide range with $\pm(0.05\% + 15 \text{ m}\Omega)$ accuracy after zero subtraction, meeting stringent IEEE specifications. The instrument combines local front-panel thumbwheel control with remote IEEE-488.2 operation for seamless integration into automated test systems. Technical Specifications Resistance Range: 0 to 99,999,999.9 Ω in 0.1 Ω increments Accuracy: $\pm(0.05\% + 15 \text{ m}\Omega)$ after zero resistance subtraction, 4-terminal "true-ohm" measurement at 23 °C, SI-traceable Zero Resistance: <140 m Ω typical <100 m Ω ; <25 m Ω with SC (Short Circuit) option; +20 m Ω if OC (Open Circuit) option present Maximum Load: 3 A or 200 V (dc + ac peak) or 0.5 W/step or 4.5 W maximum (whichever applies first) Resistance Elements: Low-inductance wirewound resistors hermetically sealed (1 Ω to 100 k Ω); precious metal-oxide film resistors (1 M Ω and above); resistance wire steps below 0.1 Ω Relay Contacts: Low thermal EMF gold-clad silver-alloy contacts

Power Supply: 110–250 V, 50–60 Hz; 0.5 A fuse (5×20 mm) Thermal EMF: Low-EMF relays employed; copper wire and copper alloys recommended for connections handling microvolts Key Features Four gold-plated tellurium-copper binding posts (HI/LO CURRENT and SENSE pairs) plus chassis GND post LOCAL/REMOTE front-panel switch for operational mode selection Hardware or software configurable GPIB addressing (0–30) Supports *IDN and CAL:DATE? SCPI 1994.0 commands 19" rack-mount configuration; 4.5 kg (10 lb) Optional OC mode for reproducible break-before-make transitions; optional SC mode for reduced zero resistance Compatibility & Integration Conforms to IEEE STD 488.2 with 24-pin GPIB connector. Supports IEEE-488.2-1987 and SCPI 1994.0 command sets, enabling direct integration with test automation platforms and instrument control frameworks.

2PRSF412IEEE2DRM Characteristics / Specifications

PARAMETER	VALUE
Model	2PRS-F-4-1-2IEEE-2D-RM
Instrument Type	dual programmable resistance substituter
Unit Count	dual (two substituters in one chassis)
Tolerance Code	F, 1 percent plus 70 mOhm (PRS-200 class)
Decade Count	4 decades
Step Size	1 Ohm per lowest decade
Range This Build	0 to 9,999 Ohm per substituter (4 decades x 1 Ohm)
Prs200 Family Range	0 to 9,999,999 Ohm, 1 Ohm resolution, 7 decades on standard PRS-200
Accuracy	1 percent plus 70 mOhm after subtracting zero residual (PRS-200)
Residual Impedance	less than 450 mOhm (PRS-200)
Maximum Load	0.5 A, or 200 V dc plus ac peak, or 0.2 W/step, or 2 W unit, whichever first
Thermal Emf	less than 15 uV; less than 10 uV typical
Switching Time	less than 4 ms per change; less than 7 ms for 0.05 percent class units
Mains	90 to 264 Vac, 47 to 63 Hz, 30 W maximum
Remote Interface	IEEE-488.2, SCPI 1994.0, address 0 to 30
Local Control	front panel thumbwheels; REMOTE/LOCAL switch
Display	digital display of programmed or manual value (D)
Mounting	19 inch rack (RM)
Rack Panel	48.3 cmWx 13.2 cm H (19 × 5.2 inch)
Behind Panel	42.7 cmWx 12.4 cmHx 31.5 cmDDual Rack Mass: 6.4 kg (14 lb) nominal
Terminals	four gold-plated tellurium-copper 5-way posts plus GND
Components	resistance wire below 1 Ohm/step; precision metal film at 1 Ohm/step and over (PRS-200/201)
Manufacturer	IET Labs (GenRad lineage)

PARAMETER	VALUE
Literature	IET PRS-PCS-PLS programmable substituter datasheet and PRS-200 IEEE.2 manual
Family	PRS programmable resistance substituters
Form Factor	19 inch rack dual chassis
System Role	programmable decade resistance for ATE

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	
Technical Specifications	
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Notes
From IET PRS-PCS-PLS datasheet (PRS-200 1 percent plus 70 mOhm, 0.5 A / 200 V / 2 W, 90 to 264 Vac 30 W, rack 19 x 5.2 inch, dual 6.4 kg) and configurator decode of 2PRS-F-4-1-2IEEE-2D-RM. Exact residual with OC/SC and calibration date query belong on the unit certificate.

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

Aumictech

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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.