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Data Sheet

August 13, 2026

YOKOGAWA

YOKOGAWA 2793 Decade Resistance Box 0.100 to 1111.210Ω High Accuracy

The Yokogawa 2793 is a high-accuracy six-dial DC decade resistance box available as 279301 (medium resistance 0.1 mOhm steps) or 279303 (high resistance to 111.1110 MOhm) for calibration of bridges, RTDs, and insulation testers. Calibration of resistance thermometers and bridges; insulation tester calibration (279303); laboratory resistance standards; precision divider and shunt verification. Calibration of resistance thermometers and bridges; insulation tester calibration (279303); laboratory resistance standards; precision divider and shunt verification.



MODEL

Yokogawa 2793

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

2793

LISTING

<https://aumictechlabs.com/products/2793-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Yokogawa 2793 Decade Resistance Box is a high-accuracy DC variable resistor for precision calibration and measurement applications. Available in two models - the 279301 for medium resistance ranges (0.1 Ω to 1,111.210 Ω) and the 279303 for high resistance ranges (0 Ω to 111.1110 MΩ) - this instrument delivers stable, repeatable performance in demanding laboratory environments. The six-dial configuration with in-line display enables rapid resistance setting and clear readability. Shock and vibration proof construction ensures reliable operation across calibration, testing, and bridge measurement workflows. Technical Specifications Model 279301

(Medium Resistance) Resistance range: 0.1 Ω to 1,111.210 Ω Resolution: 1 m Ω Accuracy: $\pm(0.01 \Omega + 2 \text{ m}\Omega)$ at 23 $\pm 2^\circ\text{C}$, 45–85% humidity, 0.1 W or $\pm 0.01\%$ Maximum input power: 0.2 W/step; 1 W overall Maximum input current: 50 mA (100 Ω), 150 mA (10 Ω), 500 mA (1 Ω), 1.5 A (0.1 Ω) Model 279303 (High Resistance) Resistance range: 0 Ω to 111.1110 M Ω Resolution: 100 Ω Accuracy: $\pm 0.05\%$ or $\pm 0.05 \Omega$ Voltage coefficient: $< \pm 0.1\%$ at 1 M Ω and 10 M Ω steps (100 V); 500 M Ω at 500 V DC (panel to circuit) Power dissipation: ≤ 1 W overall Operating conditions: 23 $\pm 2^\circ\text{C}$, 45–85% humidity Rack-mountable

Key Features Six-dial selector for precise, repeatable resistance values 1 m Ω minimum step (279301) or 100 Ω step (279303) Low power dissipation suitable for delicate circuits High dielectric strength for safety-critical calibration work Stable performance across specified environmental ranges

Typical Applications Calibration of resistance thermometers and bridge circuits (279301) Calibration of insulation resistance testers and bridges (279303) Laboratory measurement and standard reference applications

Compatibility & Integration Rack-mounting capability enables integration into standardized test benches and automated calibration systems. Both models accept connection within the specified current and voltage limits for bridge circuits and precision measurement setups.

2793 Characteristics / Specifications

PARAMETER	VALUE
Model	2793
Manufacturer	Yokogawa
Instrument Type	Decade Resistance Box
Variants	279301 (medium); 279303 (high)
Dial Count	6
Medium Range	0.1 mOhm to 1,111.210 Ohm (minimum 0.1 Ohm; variant 279301)
Medium Resolution	1 mOhm (279301)
Medium Accuracy	+/- (0.01% + 2 mOhm) at 23 +/-2 deg C, 45 to 75% RH, 0.1 W
High Range	0 to 111.1110 MOhm (variant 279303)
High Resolution	100 Ohm (279303)
High Accuracy	+/- (0.05% + 0.05 Ohm) on 100 Ohm to 100 kOhm steps; +/-0.2% on 1 MOhm and 10 MOhm steps
Max Allowable Input Power Medium	0.25 W per step; 1 W overall (279301)
Max Allowable Current Medium	50 mA (100 Ohm steps) to 1.5 A (0.1 Ohm steps)
Dielectric Strength Medium	1000 VAC 1 min panel to circuit (279301)
Dielectric Strength High	2500 VAC 1 min panel to circuit (279303)
Insulation Resistance Medium	>500 MOhm at 500 VDC (279301)
Insulation Resistance High	>10^11 Ohm at 1000 VDC (279303)
Dimensions	497 W x 116 H x 140 D mm
Weight Medium	approx. 4.8 kg (279301)
Weight High	approx. 5.3 kg (279303)
Operating Conditions	23 +/-2 degCrecommended for spec accuracy
Alias	2793; 279301; 279303
Terminals	four terminal Kelvin connection (279301)
High Variant Max Input	2000 V on high resistance steps (279303)
Contact Resistance	approx. 0.05 Ohm residual (279303)

PARAMETER	VALUE
Calibration Use	resistance thermometer and bridge calibration
Operating Humidity	below 75% RH for rated accuracy
Finish	panel mount laboratory decade box
Dial Type	rotary decade switches (6 dials)
Zero Residual	0.1 Ohm minimum on 279301
Mounting	benchtop; optional /RAK rack mount kits Notes Confirm variant 279301 vs 279303 on dial plate. Rack-mount /RAK types available.
279301	0.1 mOhm to 1,111.210 Ohm in 1 mOhm steps
279303	0 to 111.1110 MOhm in 100 Ohm steps
Humidity	below 75% RH for rated accuracy

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	2793
Manufacturer	Yokogawa
Instrument Type	Decade Resistance Box
Specifications	
PARAMETER	VALUE
Variants	279301 (medium); 279303 (high)
Dial Count	6
Medium Range	0.1 mOhm to 1,111.210 Ohm (minimum 0.1 Ohm; variant 279301)
Specifications	
PARAMETER	VALUE
Medium Resolution	1 mOhm (279301)
Medium Accuracy	+/- (0.01% + 2 mOhm) at 23 +/-2 deg C, 45 to 75% RH, 0.1 W
High Range	0 to 111.1110 MOhm (variant 279303)
Specifications	
PARAMETER	VALUE
High Resolution	100 Ohm (279303)
High Accuracy	+/- (0.05% + 0.05 Ohm) on 100 Ohm to 100 kOhm steps; +/-0.2% on 1 MOhm and 10 MOhm steps
Max Allowable Input Power Medium	0.25 W per step; 1 W overall (279301)
Specifications	
PARAMETER	VALUE
Max Allowable Current Medium	50 mA (100 Ohm steps) to 1.5 A (0.1 Ohm steps)
Dielectric Strength Medium	1000 VAC 1 min panel to circuit (279301)
Dielectric Strength High	2500 VAC 1 min panel to circuit (279303)

Specifications

PARAMETER	VALUE
Insulation Resistance Medium	>500 MOhm at 500 VDC (279301)
Insulation Resistance High	>10^11 Ohm at 1000 VDC (279303)
Dimensions	497 W x 116 H x 140 D mm

Specifications

PARAMETER	VALUE
Weight Medium	approx. 4.8 kg (279301)
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Operating Conditions	23 +/-2 degCrecommended for spec accuracy

Specifications

PARAMETER	VALUE
Alias	2793; 279301; 279303
Terminals	four terminal Kelvin connection (279301)
High Variant Max Input	2000 V on high resistance steps (279303)

Specifications

PARAMETER	VALUE
Contact Resistance	approx. 0.05 Ohm residual (279303)
Calibration Use	resistance thermometer and bridge calibration
Operating Humidity	below 75% RH for rated accuracy

Specifications

PARAMETER	VALUE
Finish	panel mount laboratory decade box
Dial Type	rotary decade switches (6 dials)
Zero Residual	0.1 Ohm minimum on 279301

Mounting: benchtop; optional /RAK rack mount kits

Notes

Confirm variant 279301 vs 279303 on dial plate. Rack-mount /RAK types available.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<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.