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Data Sheet

July 31, 2026

YOKOGAWA

Yokogawa 2560A High Output Precision DC Calibrator

1-hour stability at 23 C +/-1 C, starting 1 hour after output ON. Accuracy at 23 C +/-3 C, 20% to 80% RH; add temperature coefficient outside 20 C to 26 C within operating range. Add 500 ppm of range when output is 120% of range or greater. To generate 122.4% of range, set main value to 120% and deviation to 2%. Power cord; B8506ZK and B8506WA measurement lead sets; B8506ZL alligator clip adapter set; 758921 fork terminal adapter; rubber feet; terminal plug; user's manual Model 2560A with version/temperature-unit and regional power-cord suffix codes (for example -VA with -UC or -UF). Power cord; B8506ZK and B8506WA measurement lead sets; B8506ZL alligator clip adapter set; 758921 fork terminal adapter; rubber feet; terminal plug; user's manual Model 2560A with version/temperature-unit and regional power-cord suffix codes (for example -VA with -UC or -UF). This manual OEM source was compiled from the official Yokogawa 2560A Precision DC Calibrator Bulletin 2560A-01EN and Yokogawa 2560A Wide Output Precision DC Calibrator product documentation. The product is also marketed as high-voltage / high-current or wide-output precision DC calibrator.



MODEL

Yokogawa 2560A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

2560A

LISTING

<https://aumictechlabs.com/products/2560a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Yokogawa 2560A is a high-output precision DC calibrator engineered for accurate calibration of DC voltage and current measuring instruments, as well as temperature sensors across calibration laboratories, manufacturing, and R&D environments. The instrument delivers stable, precise DC sourcing with simultaneous thermocouple and RTD simulation capabilities, accommodating analog meters, digital multimeters, thermometers, and temperature transmitters. Operation combines intuitive front-panel controls - dedicated dials and switches with seven-segment LED displays - alongside three computer interfaces (GP-IB, Ethernet, USB) for seamless integration into automated test systems.

Technical Specifications

DC Voltage Output Range: -1224 V to +1224 V
Accuracy: ± 50 ppm (180 days)
Stability: ± 10 ppm/h at 1 V range
Maximum output: $\pm 122.4\%$ of range
DC Current Output Range: -12.2400 A to +36.720 A
Single unit maximum: 36.72 A
Dual unit parallel maximum: 73.44 A
Accuracy: ± 70 ppm (180 days)
Stability: ± 20 ppm/h at 1 mA range
Resistance Output Range: 1 Ω to 400 Ω

Temperature Sensor Simulation

Thermocouples: 10 types (R, S, B, J, T, E, K, N, C, A) plus user-defined RTDs: Pt100 and user-defined Reference junction compensation: internal, external (Pt100), or manual modes

Display Standard: 5.5 digits, ± 120000 count
High resolution: 6.5 digits, ± 1200000 count

Output Functions

Divider: stepped output (25%, 50%, 75%, 100%)
Deviation control: 2% or 5% incremental steps
Sweep: 8, 16, 32, or 64 second sweep times

Key Features

Five-digit precision with optional six-digit high-resolution mode for enhanced measurement resolution
Parallel operation capability - two units deliver 73.44 A combined current output
Multiple reference junction compensation modes for flexible RTD/thermocouple testing
Output divider and deviation functions for comprehensive linearity and point-to-point validation

Typical Applications

Calibration of DC analog and digital meters
Multimeter verification (analog and digital)
Thermometer and temperature transmitter certification
Thermocouple and RTD sensor characterization

Compatibility & Integration

GP-IB (IEEE 488.2), Ethernet, and USB interfaces enable direct integration into automated test equipment. Operating temperature range: +5°C to +40°C. Dimensions: 426 mm $\times$ 177 mm $\times$ 400 mm; weight: approximately 13 kg.

Features & description

From manufacturer datasheet

Features

- High accuracy: DC voltage ± 50 ppm; DC current ± 70 ppm (1 V / 1 mA range, 180 days) • High stability: ± 10 ppm/h voltage; ± 20 ppm/h current (1 V / 1 mA range) • High resolution: 5.5 digits (± 120000 counts); 6.5 digits (± 1200000 counts) in high-resolution mode • Wide output: -1224.00 V to +1224.00 V; -12.2400 A to +36.720 A • Five voltage ranges and seven current ranges; output to $\pm 122.4\%$ of range for 1200 V meter calibration • Output divider, deviation, and sweep functions for analog meter calibration • 10 IEC thermocouple types, Pt100 RTD, and 1 to 400 Ohm resistance generation • Internal / external / manual RJC modes • USB, Ethernet, and GP-IB for ATE integration • Approximately 13 kg (about 60% lighter than previous 2560)

2560A Characteristics / Specifications

PARAMETER	VALUE
Model	2560A
Instrument Type	High Output / Wide Output Precision DC Calibrator
Display Resolution	5.5 digits (+/-120000 counts); 6.5 digits (+/-1200000 counts) in high-resolution mode
Dimensions (WxHxD)	426 mm x 177 mm x 400 mm
Weight	Approximately 13 kg
Operating Environment	5 C to 40 C; 20% to 80% RH (20% to 70% RH at 30 C and above)
Storage Environment	-15 C to 60 C; 20% to 80% RH
Operating Height	2000 m or less
Power	100-120 VAC / 200-240 VAC, 50/60 Hz; max consumption 200 VA
Withstand Voltage	1500 VAC 1 min between power and case Voltage Generation
Ranges	100 mV, 1 V, 10 V, 100 V, 1000 V 100 mV: Source +/-122.400 mV; resolution 1 uV; 1 h stability +/- (20 ppm of setting + 3 uV); 180-day +/- (40 ppm + 4 uV); 1-year +/- (60 ppm + 4 uV) 1 V: Source +/-1.22400 V; resolution 10 uV; 1 h stability +/- (5 ppm + 5 uV); 180-day +/- (40 ppm + 10 uV); 1-year +/- (55 ppm + 15 uV)
Typical Max Output Current	100 mV 12 mA or more; 1 V / 10 V approx. 120 mA; 100 V approx. 30 mA; 1000 V approx. 10 mA
Output Resistance	6 mOhm or less (100 mV to 10 V); 30 mOhm or less (100 V); 1 Ohm or less (1000 V)
CMRR (Voltage)	120 dB or greater (except 1000 V); 100 dB or greater (1000 V) at DC, 50/60 Hz
Transient Response (no load to 0.02%)	Approx. 500 ms (except 1000 V); approx. 3 s (1000 V range) Current Generation
Parallel Operation	Two 2560A units can be paralleled for up to 73.44 A (accuracy, stability, and temperature-coefficient errors are twice those of one unit) Temperature And Resistance Generation
Thermocouple Types	R, S, B, J, T, E, K, N, C, A, plus user-defined
Example Source Ranges	R/S -50 to 1768 C; B 0 to 1820 C; J -210 to 1200 C; T -270 to 400 C; E -270 to 1000 C; K/N -270 to 1300 C; C 0 to 2315 C; A 0 to 2500 C
Thermocouple Resolution	0.1 C; ITS-90; output resistance approximately 1 Ohm

PARAMETER	VALUE
RTD	Pt100, -200.0 to 850.0 C; resolution 0.1 C; 180-day +/-0.1 C; 1-year +/-0.12 C; tempco +/-0.006 C/C; nominal current 0.1 to 2 mA; also user-defined
Resistance Generation	400 Ohm range, 1.00 to 400.00 Ohm; resolution 0.01 Ohm; 180-day +/- (55 ppm of setting + 0.005 Ohm); 1-year +/- (75 ppm + 0.015 Ohm); tempco +/-0.002 Ohm/C; nominal current 0.1 to 2 mA
RJC Modes	Internal (output-terminal temperature, +/-0.3 C measurement accuracy); External (sensor on RJ terminal); Manual Analog Meter Calibration Functions
Sweep	Voltage/current/temperature/resistance; selectable approx. 8 / 16 / 32 / 64 s for 0-100% and 100-0%
Output Divider	Denominator m = 4 to 15; numerator n = 0 to 15 (n less than or equal to m)
Deviation	+/-20.00% of (MAX - MIN); dual dials; presets OFF / 0 / 2% / 5%
Scale Function	User-set MAX and MIN for sweep and divider range (useful for zero-suppressed meters)
High accuracy	DC voltage +/-50 ppm; DC current +/-70 ppm (1 V / 1 mA range, 180 days)
High stability	+/-10 ppm/h voltage; +/-20 ppm/h current (1 V / 1 mA range)
High resolution	5.5 digits (+/-120000 counts); 6.5 digits (+/-1200000 counts) in high-resolution mode
Wide output	-1224.00 V to +1224.00 V; -12.2400 A to +36.720 A
Warm-up time	Approximately 30 minutes

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	2560A
Instrument Type	High Output / Wide Output Precision DC Calibrator
Display Resolution	5.5 digits (+/-120000 counts); 6.5 digits (+/-1200000 counts) in high-resolution mode
Warm-up Time: Approximately 30 minutes	
Specifications	
PARAMETER	VALUE
Dimensions (WxHxD)	426 mm x 177 mm x 400 mm
Weight	Approximately 13 kg
Operating Environment	5 C to 40 C; 20% to 80% RH (20% to 70% RH at 30 C and above)
Storage Environment	-15 C to 60 C; 20% to 80% RH
Operating Height	2000 m or less
Power	100-120 VAC / 200-240 VAC, 50/60 Hz; max consumption 200 VA
Withstand Voltage	1500 VAC 1 min between power and case
Voltage Generation	
Ranges: 100 mV, 1 V, 10 V, 100 V, 1000 V	
100 mV: Source +/-122.400 mV; resolution 1 uV; 1 h stability +/- (20 ppm of setting + 3 uV); 180-day +/- (40 ppm + 4 uV); 1-year +/- (60 ppm + 4 uV)	
1 V: Source +/-1.22400 V; resolution 10 uV; 1 h stability +/- (5 ppm + 5 uV); 180-day +/- (40 ppm + 10 uV); 1-year +/- (55 ppm + 15 uV)	
10 V: Source +/-12.2400 V; resolution 100 uV; 1 h stability +/- (5 ppm + 50 uV); 180-day +/- (40 ppm + 100 uV); 1-year +/- (55 ppm + 150 uV)	
100 V: Source +/-122.400 V; resolution 1 mV; 1 h stability +/- (5 ppm + 500 uV); 180-day +/- (40 ppm + 1 mV); 1-year +/- (55 ppm + 1.5 mV)	
1000 V: Source +/-1224.00 V; resolution 10 mV; 1 h stability +/- (5 ppm + 5 mV); 180-day +/- (40 ppm + 10 mV); 1-year +/- (55 ppm + 15 mV)	
Specifications	
PARAMETER	VALUE
Typical Max Output Current	100 mV 12 mA or more; 1 V / 10 V approx. 120 mA; 100 V approx. 30 mA; 1000 V approx. 10 mA
Output Resistance	6 m0hm or less (100 mV to 10 V); 30 m0hm or less (100 V); 1 0hm or less (1000 V)

PARAMETER	VALUE
CMRR (Voltage)	120 dB or greater (except 1000 V); 100 dB or greater (1000 V) at DC, 50/60 Hz
Transient Response (no load to 0.02%)	Approx. 500 ms (except 1000 V); approx. 3 s (1000 V range)

Current Generation

Ranges: 100 uA, 1 mA, 10 mA, 100 mA, 1 A, 10 A, 30 A

100 uA: Source +/-122.400 uA; resolution 1 nA; 1 h +/- (50 ppm + 5 nA); 180-day +/- (100 ppm + 12 nA); 1-year +/- (150 ppm + 20 nA)

1 mA: Source +/-1.22400 mA; resolution 10 nA; 1 h +/- (5 ppm + 15 nA); 180-day +/- (50 ppm + 20 nA); 1-year +/- (70 ppm + 30 nA)

10 mA: Source +/-12.2400 mA; resolution 100 nA; 1 h +/- (5 ppm + 150 nA); 180-day +/- (50 ppm + 200 nA); 1-year +/- (70 ppm + 300 nA)

100 mA: Source +/-122.400 mA; resolution 1 uA; 1 h +/- (10 ppm + 1.5 uA); 180-day +/- (70 ppm + 2 uA); 1-year +/- (90 ppm + 3 uA); accuracy specified when sinking up to 30 mA

1 A: Source +/-1.22400 A; resolution 10 uA; 1 h +/- (25 ppm + 25 uA); 180-day +/- (250 ppm + 50 uA); 1-year +/- (350 ppm + 70 uA)

10 A: Source +/-12.2400 A; resolution 100 uA; 1 h +/- (50 ppm + 500 uA); 180-day +/- (350 ppm + 1 mA); 1-year +/- (380 ppm + 1.2 mA)

30 A: Source 0 to +36.720 A; resolution 1 mA; 1 h +/- (70 ppm + 1.2 mA); 180-day +/- (450 ppm + 1.5 mA); 1-year +/- (540 ppm + 1.8 mA)

Parallel Operation: Two 2560A units can be paralleled for up to 73.44 A (accuracy, stability, and temperature-coefficient errors are twice those of one unit)

Temperature And Resistance Generation

Specifications

PARAMETER	VALUE
Thermocouple Types	R, S, B, J, T, E, K, N, C, A, plus user-defined
Example Source Ranges	R/S -50 to 1768 C; B 0 to 1820 C; J -210 to 1200 C; T -270 to 400 C; E -270 to 1000 C; K/N -270 to 1300 C; C 0 to 2315 C; A 0 to 2500 C
Thermocouple Resolution	0.1 C; ITS-90; output resistance approximately 1 Ohm
RTD	Pt100, -200.0 to 850.0 C; resolution 0.1 C; 180-day +/-0.1 C; 1-year +/-0.12 C; tempco +/-0.006 C/C; nominal current 0.1 to 2 mA; also user-defined

Resistance Generation: 400 Ohm range, 1.00 to 400.00 Ohm; resolution 0.01 Ohm; 180-day +/- (55 ppm of setting + 0.005 Ohm); 1-year +/- (75 ppm + 0.015 Ohm); tempco +/-0.002 Ohm/C; nominal current 0.1 to 2 mA

RJC Modes: Internal (output-terminal temperature, +/-0.3 C measurement accuracy); External (sensor on RJ terminal); Manual

Analog Meter Calibration Functions

Specifications

PARAMETER	VALUE
Sweep	Voltage/current/temperature/resistance; selectable approx. 8 / 16 / 32 / 64 s for 0-100% and 100-0%
Output Divider	Denominator m = 4 to 15; numerator n = 0 to 15 (n less than or equal to m)
Deviation	+/-20.00% of (MAX - MIN); dual dials; presets OFF / 0 / 2% / 5%
Scale Function	User-set MAX and MIN for sweep and divider range (useful for zero-suppressed meters)

Note: Sweep, divider, and deviation are not available in high-resolution mode

Accuracy Conditions

1-hour stability at 23 C $\pm$ 1 C, starting 1 hour after output ON. Accuracy at 23 C $\pm$ 3 C, 20% to 80% RH; add temperature coefficient outside 20 C to 26 C within operating range. Add 500 ppm of range when output is 120% of range or greater. To generate 122.4% of range, set main value to 120% and deviation to 2%.

Communication Interfaces

USB (Type B, USB 2.0 High/Full Speed)

Ethernet (RJ-45, 10/100 BASE-T)

GP-IB (IEEE 488-1978)

Standard Accessories

Power cord; B8506ZK and B8506WA measurement lead sets; B8506ZL alligator clip adapter set; 758921 fork terminal adapter; rubber feet; terminal plug; user's manual

Ordering Notes

Model 2560A with version/temperature-unit and regional power-cord suffix codes (for example -VA with -UC or -UF).

Notes

This manual OEM source was compiled from the official Yokogawa 2560A Precision DC Calibrator Bulletin 2560A-01EN and Yokogawa 2560A Wide Output Precision DC Calibrator product documentation. The product is also marketed as a high-voltage / high-current or wide-output precision DC calibrator.

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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