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Data Sheet
August 1, 2026

YOKOGAWA

Yokogawa 2558A AC Voltage Current Standard

Yokogawa 2558A AC Voltage Current Standard The Yokogawa 2558A is an AC voltage and current standard designed for efficient calibration of analog and digital AC meters, clamp meters, and related instruments. It generates high-accuracy AC voltage from 1.00 mV to 1200.0 V and AC current from 1.00 mA to 60.00 A over 40 to 1000 Hz, with frequency accuracy of +/-50 ppm. Intuitive dials, deviation and divider functions, and sweep modes support fast multi-point meter calibration. USB, Ethernet, and optional GP-IB interfaces enable automated systems. Multiple units can be synchronized for power and higher-current applications. The Yokogawa 2558A is an AC voltage and current standard designed for efficient calibration of analog and digital AC meters, clamp meters, and related instruments. It generates high-accuracy AC voltage from 1.00 mV to 1200.0 V and AC current from 1.00 mA to 60.00 A over 40 to 1000 Hz, with frequency accuracy of +/-50 ppm. Intuitive dials, deviation and divider functions, and sweep modes support fast multi-point meter calibration. USB, Ethernet, and optional GP-IB interfaces enable automated systems. Multiple units can be synchronized for power and higher-current applications. Calibration and verification of AC voltmeters, ammeters, multimeters, clamp meters, CTs, and frequency meters. Two synchronized 2558A units can formavoltage-and-current source for wattmeter/

MODEL **Yokogawa 2558A**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **2558A**	LISTING **https://aumictechlabs.com/products/2558a-2/**

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

NAICS 423690 · 811210 · 541380

This unit

The Yokogawa 2558A AC Voltage Current Standard is a precision calibration instrument for validating AC measurement devices including analog wattmeters, power meters, clamp-on testers, and current transformers. It generates stable, highly accurate AC voltage and current outputs across multiple ranges with selectable fixed frequencies or variable frequency synthesis. The instrument supports both manual front-panel operation and automated test system integration via computer interfaces, making it suitable for metrology laboratories and production quality control environments.Technical Specifications AC Voltage Output Range: 1.00 mV to 1200.0 V AC Maximum with deviation function: Up to 1440 V AC Six voltage ranges: 100 mV, 1 V, 10 V, 100 V, 300 V, 1000 V Accuracy at 50/60 Hz: ±0.04% (10% to 120% of range: ±(0.03% of setting + 0.01% of range) at 50/60 Hz and 40–400 Hz; ±(0.05% of setting + 0.01% of range) at 400 Hz) Accuracy at 50/60 Hz: ±400 ppm; 40–1000 Hz: ±500 ppm AC Current Output Range: 1.00 mA to 60.00 A AC Maximum with deviation function: Up to 72 A AC Current ranges: 100 mA, 1 A, 10 A, 50 A Accuracy at 50/60 Hz: ±0.05% (10% to 120% of range: ±(0.04% of setting + 0.01% of range) at 50/60 Hz and 40–400 Hz; ±(0.06% of setting + 0.01% of range) at 400 Hz) Accuracy at 50/60 Hz: ±500 ppm; 40–1000 Hz: ±(0.06% of range + 0.01% of setting) Frequency Range: 40 Hz to 1000 Hz Fixed frequencies: 50 Hz, 60 Hz, 400 Hz Variable frequency resolution: 0.001 Hz Frequency accuracy: ±50 ppm Frequency meter mode: 20–1000 Hz Stability AC voltage/current: ±50 ppm/h General stability: ±(20 ppm of range + 30 ppm of range)/hKey Features Deviation function displays output deviation as percentage of full scale Sweep function ramps voltage, current, or frequency from 0% to 120% of set value (selectable sweep times: 8, 16, 32, or 64 seconds) for sticking tests on analog meters Output divider capability for linearity testing at 25%, 50%, 75%, 100% intervals Digital display of actual output value eliminates manual calculation Common current output terminals for all current rangesTypical Applications Calibration of wattmeters and power meters Validation of clamp-on testers and current transformers Linearity and harmonic testing Meter acceptance and conformance testingCompatibility & Integration Multiple computer interfaces enable integration into automated test equipment systems or standalone laboratory operation via front-panel controls.

Features & description

From manufacturer datasheet

Features

• AC voltage: 1.00 mV to 1200.0 V (deviation extends maximum toward 1440 V) • AC current: 1.00 mA to 60.00 A (deviation extends maximum toward 72 A on the 50 A range) • High accuracy: AC voltage +/-0.04% class and AC current +/-0.05% class at 50/60 Hz (see detailed accuracy tables) • Frequency: fixed 50/60/400 Hz and variable 40 to 1000 Hz; accuracy +/-50 ppm (180 days) / +/-100 ppm (1 year) • Output divider, deviation (+/-20%), and sweep (voltage/current/frequency) for efficient meter calibration • Six voltage ranges and four current ranges; generation to 144% of range • Common current output terminals for all current ranges • Interfaces: USB, Ethernet; optional GP-IB (/C1) • Synchronization terminals for multi-unit phase-aligned operation • Backward-compatible 2558 command mode for legacy programs

2558A Characteristics / Specifications

PARAMETER	VALUE
Model	2558A
Manufacturer	Yokogawa
Instrument Type	AC voltage / current standard
AC Voltage Output	1.00 mV to 1200.0 V (specified); up to 1440 V with deviation
AC Current Output	1.00 mA to 60.00 A (specified); up to 72 A with deviation on 50 A range
Voltage Ranges	100 mV, 1 V, 10 V, 100 V, 300 V, 1000 V
Current Ranges	100 mA, 1 A, 10 A, 50 A
Frequency Range	40 to 1000 Hz (internal VAR); presets 50/60/400 Hz
Frequency Accuracy (Internal)	+/-50 ppm (180 days), +/-100 ppm (1 year)
Stability (AC V/I)	On the order of +/-50 ppm/h class with additional range terms per bulletin
Dimensions	426 mm (W) x 132 mm (H) x 400 mm (D)
Weight	Approximately 20 kg
Power	100 to 120 VAC / 200 to 240 VAC, 50/60 Hz; max consumption about 200 VA
Operating Environment	5 to 40 C, 20 to 80% RH (no condensation), altitude 2000 m or less Accuracy Summary (10% to 120% of Range, 50/60 Hz Class)
AC Voltage	approximately 0.03% of setting + 0.01% of range (180-day / high-accuracy band; add terms at higher frequencies)
AC Current	approximately 0.04% of setting + 0.01% of range (same class) Add 0.1% of range when output is 120% to 144% of range. Full range-by-range and frequency-band tables are published in Bulletin 2558A-01EN. Sweep / Divider / Deviation
Sweep targets	voltage, current, frequency; speeds approximately 8/16/32/64 seconds
Output divider	denominator m = 4 to 15; numerator n = 0 to 15 (n less than or equal to m)
Deviation	+/-20.00% of main setting with fine preset steps Interfaces And Synchronization USB (Type B, USB 2.0), Ethernet (10/100), optional GP-IB

PARAMETER	VALUE
Sync I/O	3 +/-0.1 Vrms, 2-phase sine, 40 to 1000 Hz for master/slave multi-unit systems Standard Operating Conditions Accuracy applies after warm-up at 23 +/-3 C / 20 to 80% RH unless otherwise stated. Apply temperature coefficient outside 20 to 26 C as specified in the bulletin. Recommended calibration interval per laboratory practice (often 1 year).
High accuracy	AC voltage +/-0.04% class and AC current +/-0.05% class at 50/60 Hz (see detailed accuracy tables)
Frequency	fixed 50/60/400 Hz and variable 40 to 1000 Hz; accuracy +/-50 ppm (180 days) / +/-100 ppm (1 year)
Interfaces	USB, Ethernet; optional GP-IB (/C1)

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	2558A
Manufacturer	Yokogawa
Instrument Type	AC voltage / current standard
AC Voltage Output	1.00 mV to 1200.0 V (specified); up to 1440 V with deviation
AC Current Output	1.00 mA to 60.00 A (specified); up to 72 A with deviation on 50 A range
Voltage Ranges	100 mV, 1 V, 10 V, 100 V, 300 V, 1000 V
Current Ranges	100 mA, 1 A, 10 A, 50 A
Frequency Range	40 to 1000 Hz (internal VAR); presets 50/60/400 Hz
Frequency Accuracy (Internal)	+/-50 ppm (180 days), +/-100 ppm (1 year)
Stability (AC V/I)	On the order of +/-50 ppm/h class with additional range terms per bulletin
Dimensions	426 mm (W) x 132 mm (H) x 400 mm (D)
Weight	Approximately 20 kg
Power	100 to 120 VAC / 200 to 240 VAC, 50/60 Hz; max consumption about 200 VA

Warm-up: Approximately 30 minutes
Operating Environment: 5 to 40 C, 20 to 80% RH (no condensation), altitude 2000 m or less

Accuracy Summary (10% to 120% of Range, 50/60 Hz Class)
AC Voltage: approximately 0.03% of setting + 0.01% of range (180-day / high-accuracy band; add terms at higher frequencies)
AC Current: approximately 0.04% of setting + 0.01% of range (same class)
Add 0.1% of range when output is 120% to 144% of range. Full range-by-range and frequency-band tables are

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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Generated August 1, 2026