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Data Sheet

August 13, 2026

SCHLUMBERGER / SOLARTRON

Schlumberger / Solartron 1260 Impedance / Gain-Phase Analyzer

Solartron 1260 Impedance / Gain-Phase Analyzer The Solartron 1260 (Schlumberger / Solartron Analytical) is a frequency-response analyzer for impedance spectroscopy and gain-phase measurements. Frequency spans 10 μ Hz to 32 MHz with 10 μ Hz maximum resolution (1 in 65 million, 0.015 ppm). Accuracy is 0.1 percent and 0.1 degree. Three analyzers run in parallel (two voltage, one current). Generator provides voltage or current drive with dc bias to ± 40.95 V. 2-, 3-, and 4-terminal measurements; impedances greater than 100 MOhm. Single-sine correlation rejects noise and harmonics. Successor 1260A keeps the same frequency span. The Solartron 1260 (Schlumberger / Solartron Analytical) is a frequency-response analyzer for impedance spectroscopy and gain-phase measurements. Frequency spans 10 μ Hz to 32 MHz with 10 μ Hz maximum resolution (1 in 65 million, 0.015 ppm). Accuracy is 0.1 percent and 0.1 degree. Three analyzers run in parallel (two voltage, one current). Generator provides voltage or current drive with dc bias to ± 40.95 V. 2-, 3-, and 4-terminal measurements; impedances greater than 100 MOhm. Single-sine correlation rejects noise and harmonics. Successor 1260A keeps the same frequency span. Corrosion, batteries and fuel cells, solar cells, LCDs, biomaterials, ceramics/composites, electronic components, civil engineering; EIS with 1287 electrochemical interface; dielectrics with



MODEL

**Schlumberger /
Solartron 1260**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

1260

LISTING

[https://aumictechlabs.c
om/products/1260-2/](https://aumictechlabs.com/products/1260-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Schlumberger/Solartron 1260 is a precision impedance and gain-phase analyzer engineered for accurate characterization of frequency response and impedance across materials and electronic components. It employs a patented single-sine correlation technique to reject noise and harmonic distortion, delivering 0.1% impedance accuracy and 0.1° phase accuracy. The instrument measures impedance from 100 mΩ to >100 MΩ (extendable to 100 TΩ with the 1296A Dielectric Interface) and supports 2-, 3-, and 4-terminal measurement configurations. It operates over 10 μHz to 32 MHz with 0.015 ppm frequency resolution, enabling broad applicability in materials research, electrochemistry, and component development.

Technical Specifications

Frequency Range: 10 μHz to 32 MHz
Frequency Resolution: 0.015 ppm (1 in 65 million)
Impedance Measurement Range: 100 mΩ to >100 MΩ; up to 100 TΩ with 1296A Dielectric Interface
Impedance Accuracy: 0.1%
Phase Accuracy: 0.1°
Polarization Voltage: Up to ±40.95 V
Measurement Configurations: 2-, 3-, and 4-terminal

Key Features

- Patented single-sine correlation technique for inherent noise and harmonic distortion rejection
- Measurement modes: gain, phase, group delay, impedance, inductance, capacitance, quality factor, dissipation factor, voltage and current transfer characteristics, and immittance
- Frequency, amplitude, and bias sweep capability
- Null, normalize, and auto-impedance modes
- Built-in statistical analysis, limit checking, and data reduction
- Component sorting (manual or automatic)
- Self-test and learn program facilities
- Stray capacitance and inductance compensation via result scaling
- GPIB and RS 423 interfaces; plotter output; history file export
- Standalone or computer-controlled operation with SMaRT software and optional ZPLOT

Typical Applications

- Corrosion studies
- Battery research and fuel cells
- Solar cells and LCDs
- Bio-materials and dielectric analysis
- Ceramics and composites
- Electronic component development
- Electrochemical measurements
- Materials analysis and civil engineering

Compatibility & Integration

The 1260 integrates with Solartron Analytical products including the 1296A Dielectric Interface for extended impedance range and the 1287A Electrochemical Interface.

Features & description

From manufacturer datasheet

Features

- 10 μ Hz to 32 MHz, 0.015 ppm resolution • 0.1 percent, 0.1 degree accuracy; 0.001 dB / 0.01 degree resolution • Polarization +/-40.95 V; measures greater than 100 MOhm • Voltage mode 0-3 V rms to 10 MHz; current mode 0-60 mA rms to 10 MHz • Sweeps: frequency log/lin, ac/dc voltage, ac/dc current
- ZPlot / SMaRT software family

1260 Characteristics / Specifications

PARAMETER	VALUE
Model	1260
Manufacturer	Solartron Analytical (Schlumberger / Ametek lineage)
Instrument Type	Impedance / Gain-Phase Analyzer
Series	1260 / 1260A
Alias	1260; Solartron 1260; Schlumberger 1260
Frequency Range	10 uHz to 32 MHz
Frequency Resolution Max	10 uHz
Frequency Resolution Relative	1 in 65 million (0.015 ppm)
Frequency Error	+/-100 ppm
Frequency Stability	+/-10 ppm over 24 hrs +/-1 C
AC Amplitude Voltage To 10 MHz	0 to 3 V rms
AC Amplitude Voltage Above 10 MHz	0 to 1 V rms
AC Amplitude Current To 10 MHz	0 to 60 mA rms
AC Amplitude Current Above 10 MHz	0 to 20 mA rms
AC Resolution	5 mV / 100 uA
DC Bias Voltage	+/-40.95 V
DC Bias Current	+/-100 mA
DC Resolution	10 mV / 200 uA
Generator Output Impedance Voltage	50 ohm +/-1 percent
Generator Output Impedance Current	greater than 200 kOhm at less than 1 kHz
Max Voltage Hi To Lo	+/-46 V peak
Max Voltage Lo To Ground	+/-0.4 V peak
Voltage Input Ranges	30 mV, 300 mV, 3 V
Current Input Ranges	6 uA, 60 uA, 600 uA, 6 mA, 60 mA
Voltage Resolution	1 uV

PARAMETER	VALUE
Current Resolution	200 pA
Voltage Full Scale Peak	+/-5 V
Inputs Protected To	+/-46 V / +/-250 mA
Input Impedance Hi To Shield	1 MOhm, less than 35 pF
Accuracy Headline	0.1 percent, 0.1 degree
Display Resolution	0.001 dB, 0.01 degree
Measured Parameters	gain, phase, real, imaginary, Z, R, X, Y, G, B, V, I, group delay, C, L, Q, D
Power Supply	90 to 126 V or 198 to 252 V, 48 to 65 Hz
Power Consumption	230 VA
Dimensions	432 × 176 × 573 mm (17 × 6.93 × 22.56 in)
Weight	18 kg (40 lb)
Operating Temperature	0 to 50 C
Error Conditions	20+/-10 C, integration greater than 200 ms, valid one year after calibration
Analyzers	three independent in parallel
Connections	single/differential BNC voltage; single BNC current
Coupling	dc or ac (-3 dB at 1 Hz)
Sweeps	frequency log/lin, ac/dc voltage, ac/dc current

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	
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Optional Fixture: 12601 component test fixture

Notes

Specs from Solartron 1260 impedance/gain-phase datasheet and 1260 operating manual. 1260A is the later Ametek-branded equivalent span. Confirm firmware, GPIB, and any 1287/1296 interfaces on the installed system.

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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30-day returns
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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.