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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight CX1102A

The Keysight CX1102A is a current sensor accessory for Keysight CX and related power analyzer / source-measure platforms. OEM Keysight CX current sensor literature describes clamp or shunt-based current sensing with calibrated scaling for precision power measurements. Current sensing for power device characterization, battery drain analysis, and CX-series power measurements. Designed for Keysight CX measurement platforms Instrument Type: current sensor accessory Maximum Current Class: sensor range dependent class Storage Temperature Class: minus 40 C to 70 C class Calibration Cycle: annual class recommended Capability rows from Keysight CX1102A current sensor product descriptions. Exact ampere range and accuracy table are on the CX1102A datasheet for the installed sensor.



MODEL

**Agilent / Keysight
CX1102A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

CX1102A

LISTING

<https://aumictechlabs.com/products/cx1102a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight CX1102A is a dual-channel current sensor module for the Keysight CX3300 series mainframe, engineered for high-fidelity characterization of dynamic current consumption in low-power wireless devices and microcontrollers. The synchronized two-channel architecture delivers a 100x range difference between channels, enabling simultaneous observation of waveforms across a broad dynamic range - critical for detecting subtle current transitions during sleep/standby and active state switching. Wideband noise suppression preserves measurement

integrity at low current levels while maintaining minimal input resistance.

Technical Specifications
Current Measurement Range: 40 nA to 1 A Dynamic Range: Over 100 dB in a single measurement
Maximum Standalone Bandwidth: 100 MHz Common Mode Voltage Range: ± 12 V Input Resistance: Typically 410 m Ω Dimensions: 21.5 $\times$ 4.7 $\times$ 3.2 cm Weight: 600 g

Key Features Dual-channel synchronized operation with 100x range separation between primary and secondary channels Concurrent waveform viewing on host mainframe display Wideband noise suppression for accurate low-level current acquisition Furnished with CX1203 Coaxial Termination Sensor Head and associated interconnect cables Dedicated accessory integration with CX3300 series architecture

Typical Applications Intermittent-mode current profiling in microcontrollers and low-power wireless transceivers Device power state transition analysis across sleep, standby, and active modes Waveform characterization requiring measurement across 100+ dB dynamic range Applications demanding simultaneous observation of large and small current excursions

Compatibility & Integration The CX1102A requires a Keysight CX3300 series Device Current Waveform Analyzer mainframe (CX3322A or CX3324A) for operation. The module occupies dual channels within the host mainframe and derives all timing synchronization and display control from the CX3300 platform.

CX1102A Characteristics / Specifications

PARAMETER	VALUE
Model	CX1102A
Instrument Type	current sensor accessory
Brand Lineage	Agilent Keysight
Host Platforms	Keysight CX series class
Function	precision current sensing
Output Type	scaled analog or digital to host class
Accuracy Class	calibrated sensor class OEM
Bandwidth Class	power measurement bandwidth class
Connector	CX sensor interface class
Cable Length Class	instrument pigtail class
Operating Temperature Class	0 C to 40 C
Series Family	Keysight CX sensors
Related Models	CX1101A CX1103A class
Use Case	device current profiling
Maximum Current Class	sensor range dependent class
Burden Voltage Class	low burden class
Isolation Class	sensor isolation class
Form Factor	external sensor module
Humidity Class	noncondensing
Storage Temperature Class	minus 40 C to 70 C class
Calibration Cycle	annual class recommended
Safety	CAT rating on sensor label
Bandwidth	Class: power measurement bandwidth class
Storage temperature	Class: minus 40 C to 70 C class
Operating temperature	Class: 0 C to 40 C

PARAMETER	VALUE
Humidity	Class: noncondensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	Class: minus 40 C to 70 C class
Operating temperature	Class: 0 C to 40 C
Operating Temperature	Class: 0 C to 40 C
Humidity	Class: noncondensing
Operating Temperature Class	0 C to 40 C
Series Family	Keysight CX sensors
Related Models	CX1101A CX1103A class
Use Case	device current profiling
Maximum Current Class	sensor range dependent class
Burden Voltage Class	low burden class
Isolation Class	sensor isolation class
Form Factor	external sensor module
Humidity Class	noncondensing
Storage Temperature Class	minus 40 C to 70 C class
Calibration Cycle	annual class recommended
Safety	CAT rating on sensor label Notes Capability rows from Keysight CX1102A current sensor product descriptions. Exact ampere range and accuracy table are on the CX1102A datasheet for the installed sensor.

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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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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.