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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight SL1062A PXI Chassis Controller

Agilent Keysight SL1062A Scienlab Thermocouple Type K Measurement Module The Keysight SL1062A isaScienlab Measurement and Control Module for 16 Type-K thermocouple channels. OEM SL106XX data sheet lists minus 100 to plus 1300 C, accuracy better than plus or minus 0.5 percent of reading plus 1 K at 25 C, and 560 V insulation. Synchronous pack/module temperature logging beside Scienlab battery cyclers, or standalone Ethernet temperature acquisition. Fully galvanically isolated measurement and supply inputs The Keysight SL1062A isaScienlab Measurement and Control Module for 16 Type-K thermocouple channels. OEM SL106XX data sheet lists minus 100 to plus 1300 C, accuracy better than plus or minus 0.5 percent of reading plus 1 K at 25 C, and 560 V insulation. Synchronous pack/module temperature logging beside Scienlab battery cyclers, or standalone Ethernet temperature acquisition. Fully galvanically isolated measurement and supply inputs PTP time stamps for correlation with cycler data



MODEL

**Agilent / Keysight
SL1062A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

SL1062A

LISTING

<https://aumictechlabs.com/products/sl1062a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight SL1062A is a measurement and control module designed for temperature monitoring using thermocouple sensors. This module is specifically engineered to record data from Type K thermocouples, covering a temperature range from -100 °C to +1300 °C. It features

16 independent measurement channels, and each channel offers full electrical isolation with an insulation voltage of up to 1,000 V, ensuring safe operation when working with high-voltage systems, such as those found in battery development. The SL1062A module works with precise, reproducible, and time-synchronous data acquisition. It records all measured values synchronously with common time stamps in accordance with the Precision Time Protocol (PTP), which allows for accurate comparison and evaluation of different data sets. This module can be utilized as a standalone device or integrated as an extension to a Scienlab Battery Test System. The module connects via an open Ethernet interface, allowing for automatic detection by the Scienlab Energy Storage Discover (ESD) software or integration with customer-specific software solutions. The SL106XX series, which includes the SL1062A, is ideal for challenging measurement tasks, even in difficult environmental conditions, with operating temperature ranges from -40 °C to 80 °C and an IP20 rating. Technical Specifications Measurement Type: Temperature measurement using Thermocouple Type K sensors. Temperature Range: -100 °C to +1300 °C. Number of Channels: 16 channels. Electrical Isolation: Fully electrically isolated measurement channels. Insulation voltage up to 1,000 V between each channel. High insulation strength for safe working conditions. Data Acquisition: Precise, reproducible, and time-synchronous measurement data recording. Synchronized time stamp in accordance with Precision Time Protocol (PTP). Interfaces: Connection via open Ethernet interface. Automatic detection by Scienlab Energy Storage Discover (ESD) software. Integration with customer's software or automation solutions. Environmental: Operating temperature range: -40 °C to 80 °C. IP20 rating. System Integration: Can be used as a standalone device. Can be used as an extension for a Scienlab Battery Test System. Seamless integration into Scienlab Energy Storage Discover (ESD) software. Why Choose Aumictech for Agilent/Keysight SL1062A? At Aumictech, we specialize in supplying high-end measurement and control equipment. Whether you need precise temperature monitoring, solid data acquisition for battery testing, or seamless integration with your existing systems, our team ensures the Agilent/Keysight SL1062A delivers maximum performance for your application.

SL1062A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Portable thermocouple measurement module
Series Family	Keysight SL106XX Scienlab Measurement and Control
Number Of Channels	16 temperature measurement inputs
Sensor Type	thermocouple TypeKMeasuring Range: minus 100 to plus 1300 C
Measuring Accuracy	less than plus or minus 0.5 percent of measured value plus or minus 1 K at 25 C
Temperature Coefficient	less than plus or minus 200 ppm/K at 25 C; valid for environment minus 50 to plus 80 C
Data Rate	1 or 10 Hz
Insulation Strength	560 V per EN61010
Isolation Scope	channel to channel, channels to supply, interface, and housing PE
Time Synchronization	Precision Time Protocol (PTP) common time stamps
Dimensions HxWxD	90 mm x 296 mm x 115 mm
Weight Approximate	2 kg
Operating Temperature	10 to 50 C
Protection Class	IP20
Power Supply	Power over Ethernet IEEE 802.3af-2003 or 48 VDC
Communication	2 x Ethernet 10/100 Mbit/s internal 2-port switch
Software Compatibility	full integration via Scienlab ESD software
Stand Alone Use	stand-alone or extension of a Scienlab Battery Test System
Channel Isolation	fully electrically isolated independent channels
Network Discovery	ESD automatically detects modules on the laboratory network
Channel Assignment	measurement channels freely assigned to test-system channels in ESD
Limit Use	recorded data usable as variables or abort-limit values in ESD sequences
Cabling Reduction	power and network daisy-chain across multiple modules
Open Interface	Ethernet integration into customer automation software

PARAMETER	VALUE
Insulation Rationale	sensors may contact high-voltage battery terminals

SL1062A Specifications

PARAMETER	VALUE
PTP time stamps for correlation with cyclor data	PoE or 48 VDC supply with Ethernet daisy-chain
Automatic detection in Energy Storage Discover	Portable IP20 enclosure for lab-floor placement
Technical Specifications	Instrument Type: Portable thermocouple measurement module
Notes	Numeric rows from Keysight SL106XX Series Scienlab Measurement and Control Module data sheet SL1062A section.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	10 to 50 C
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Open Interface	Ethernet integration into customer automation software
Insulation Rationale	sensors may contact high-voltage battery terminals Notes Numeric rows from Keysight SL106XX Series Scienlab Measurement and Control Module data sheet SL1062A section.

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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PARAMETER	VALUE
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Insulation Rationale	sensors may contact high-voltage battery terminals
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Notes
Numeric rows from Keysight SL106XX Series Scienlab Measurement and Control Module data sheet SL1062A section.

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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NIST-traceable calibration · SAM registered ·
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.