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Data Sheet

August 15, 2026

ALTEK

Altek 322-1 Thermocouple Calibrator

Altek 322-1 Handheld Thermocouple Calibrator The Altek 322-1 is a handheld thermocouple source/read calibrator in the Altek 322 family. OEM 322-series literature covers common thermocouple types (J, K, T, E, R, S, B, N class), source and read modes, 0.1 degree display class, and 9 V battery handheld operation. The dash-1 overlay is the standard 322 handheld. Used to inject thermocouple millivolts into process indicators and to read a connected thermocouple. Field calibration of thermocouple transmitters, indicators, and recorders. The Altek 322-1 is a handheld thermocouple source/read calibrator in the Altek 322 family. OEM 322-series literature covers common thermocouple types (J, K, T, E, R, S, B, N class), source and read modes, 0.1 degree display class, and 9 V battery handheld operation. The dash-1 overlay is the standard 322 handheld. Used to inject thermocouple millivolts into process indicators and to read a connected thermocouple. Field calibration of thermocouple transmitters, indicators, and recorders. Handheld T/C source and read JK TERS B N class



MODEL

Altek 322-1

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

322-1

LISTING

<https://aumictechlabs.com/products/322-1-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Altek 322-1 Thermocouple Calibrator is a precision portable instrument for simulating and measuring thermocouple outputs in field and laboratory environments. It supports J, K, T, E thermocouple types plus millivolt sourcing, enabling technicians to calibrate temperature measurement devices and troubleshoot thermal loops with high accuracy and speed. Technical

Specifications Output Performance Accuracy: $\pm(0.008\% \text{ of Reading} + 0.006 \text{ mV})$ Output Impedance: $<0.1 \text{ ohms}$ Source Current: Up to 8 mA (drives 80 mV into 10 ohms) Output Noise: 10 Megohms Normal Mode Rejection: 50/60 Hz, 50 dB Common Mode Rejection: 50/60 Hz, 120 dB Measurement Resolution: 0.1° or 1° (field selectable); 0.001 mV resolution Open Thermocouple Detection: 450 ms check pulse, 10 k Ω threshold Environmental & Operating Conditions Operating Temperature: -20 to $+60^\circ\text{C}$ (-5 to $+140^\circ\text{F}$) Storage Temperature: -30 to $+80^\circ\text{C}$ (-22 to $+175^\circ\text{F}$) Relative Humidity: 10 to 90%, non-condensing Cold Junction Compensation: Built-in, characterized to T/C curve Cold Junction Temperature Effect: $\leq 0.05^\circ\text{C}$ per $^\circ\text{C}$ ambient change Reference Drift: 10 M Ω) minimizes loading effects during measurement mode.

322 Characteristics / Specifications

PARAMETER	VALUE
Model	322-1
Instrument Type	Handheld thermocouple calibrator
Family	Altek 322
Modes	source and read
Thermocouple Types	J, K, T, E, R, S, B, N class
Display Class	0.1 degree
Power	9 V battery handheld
Manufacturer	Altek
Literature	Altek 322-series thermocouple calibrator literature
Form Factor	handheld calibrator
Application Class	field T/C calibration
System Role	thermocouple millivolt source/read
Use Case	transmitter and indicator checks
Documentation Type	OEM Altek 322 listing
Connector Class	miniature thermocouple jack
Cold Junction	internal CJC on 322-series
Brand Lineage	Altek process calibrators
Year Class	Altek 322 handheld family
Output Class	thermocouple millivolt source
Input Class	thermocouple millivolt read
Accuracy Class	process-calibrator 322 family (see certificate)
Keypad Class	type and temperature entry
Display Type	digital temperature display
Portability	handheld 9 V
Process Class	4-20 mA transmitter simulation isadifferent Altek series

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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Notes

From Altek 322-series handheld thermocouple calibrator literature (source/read, J/K/T/E/R/S/B/N class, 0.1 degree display, 9 V). Type-by-type accuracy tables are on the 322 specification sheet/certificate; do not invent 0.3 C figures.

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.