


Aumictech

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

FLUKE

Fluke 725 Multifunction Process Calibrator

Fluke 725 Multifunction Process Calibrator The Fluke 725 is a handheld multifunction process calibrator that measures and sources volts, mA, temperature (RTDs and thermocouples), frequency, ohms, and pressure (with optional modules). It supports transmitter calibration with 24 V loop power, ramps, and step functions for field instrument work. The Fluke 725 is a handheld multifunction process calibrator that measures and sources volts, mA, temperature (RTDs and thermocouples), frequency, ohms, and pressure (with optional modules). It supports transmitter calibration with 24 V loop power, ramps, and step functions for field instrument work.



MODEL

Fluke 725

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

725

LISTING

<https://aumictechlabs.com/products/725-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 725 Multifunction Process Calibrator is a portable field instrument that measures and sources electrical and physical parameters for process instrumentation calibration, maintenance, and troubleshooting. Its split-screen display enables simultaneous viewing of measured and sourced values, streamlining calibration workflows across process plants, oil and gas, power generation, and manufacturing environments. Technical Specifications Voltage (DC) Measure: up to 30.000 V (accuracy 0.02% + 2 counts) Source: 10.000 V (accuracy 0.02% + 2 counts) mV range: -10.00 mV to 75.00 mV via TC connector (accuracy 0.025% + 1 count) Current (mA) Measure, Source, and Simulate: 24.000 mA (accuracy 0.02% + 2 counts) Resistance (Ohms)

Measure and Source range: 15 to 3200 Ω Measure accuracy (0.0–400.0 Ω): 0.1 Ω (4-wire), 0.15 Ω (2- and 3-wire) Measure accuracy (401–1500 Ω): 0.5 Ω (4-wire), 1 Ω (2- and 3-wire) Measure accuracy (1500–3200 Ω): 1 Ω (4-wire), 1.5 Ω (2- and 3-wire) Source accuracy: 0.15 Ω (15.0–400.0 Ω at 0.15–0.5 mA excitation), 0.1 Ω (0.5–2 mA excitation); 0.5 Ω (401–1500 Ω at 0.05–0.8 mA); 1 Ω (1500–3200 Ω at 0.05–0.4 mA); 1% base accuracy Temperature RTD types: Ni120, Pt100 (385, 393, JIS) Thermocouple types: J, K, T, E, R, S, B, L, U, N TC measure accuracy: 0.2°C cold junction uncertainty; individual type accuracy 0.1°C to 1.4°C depending on type RTD measure accuracy: 0.1°C to 0.33°C depending on type RTD source accuracy: 0.2°C to 0.33°C depending on type Temperature coefficient: $\pm 0.005\%$ of range per °C

Key Features Split-screen display for simultaneous measurement and sourcing readout Compact, portable design for field deployment 4-wire, 2-wire, and 3-wire resistance measurement modes Thermocouple cold junction compensation Multi-standard RTD support

Typical Applications Process instrumentation calibration Control loop troubleshooting Transmitter verification Temperature sensor validation Plant maintenance and commissioning

Compatibility & Integration TC connector interface for thermocouple and mV measurements. Supports industry-standard RTD and thermocouple standards for integration into existing process systems.

Features & description

From manufacturer datasheet

Features

- Dual display measure and source • 24 V loop power • Ramp and 25% step functions • Optional pressure modules • Compact field calibrator form factor
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Applications

- Measure/source process signals for transmitter and loop checks • Temperature transmitter calibration (TC/RTD) • Pressure calibration with Fluke 750P modules • Frequency and resistance simulation in the field

725 Characteristics / Specifications

PARAMETER	VALUE
Model	725
Manufacturer	Fluke
Instrument Type	Multifunction Process Calibrator
Alias	725; Fluke 725
Voltage DC measure	to 30.000 V; 0.02% + 2 counts class
Voltage DC source	to 10 V / 100 mV ranges class; 0.02% + 2 counts
Current DC measure/source	to 24.000 mA; 0.02% + 2 counts
TC mV	-10.00 mV to +75.00 mV; 0.025% + 1 count class
Resistance	0 to 3200 ohm class (split ranges with 0.1 to 1.5 ohm accuracy class)
Frequency measure/source	2.0-1000.0 CPM; 1.0-1100.0 Hz; 1.00-10.00 kHz; 0.05% class
Loop supply	24 V dc; accuracy 10%; max 22 mA short-circuit protected
Thermocouple types class	J, K, T, E, R, S, B, L, U, N (ranges per type)
RTD types class	Ni120, Pt100-385/3926/3916, Pt200/500/1000-385
Operating temperature	-10 degC to 55 degC class
Storage temperature	-40 degC to 71 degC
Maximum voltage	30 V
Pressure	via optional 750P modules; accuracy from 0.025% of range class Notes Specs from Fluke 725 product datasheet. Confirm pressure-module kit separately.

725 Specifications

PARAMETER	VALUE
Fluke 725 Multifunction Process Calibrator	Overview
Technical Specifications	Model: 725
Notes	Specs from Fluke 725 product datasheet. Confirm pressure-module kit separately.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 degC to 71 degC
Operating temperature	10 degC to 55 degC class
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Maximum voltage	30 V
Pressure	via optional 750P modules; accuracy from 0.025% of range class Notes Specs from Fluke 725 product datasheet. Confirm pressure- module kit separately.

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	
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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.