

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

FLUKE

Fluke 753 Documenting Process Calibrator

The Fluke 753 is a handheld documenting multifunction process calibrator that measures and sources voltage, current, resistance, frequency, and temperature, with optional pressure modules. It stores as-found/as-left results, supports automated procedures, and provides loop power for transmitter calibration in the field. Reading rates: 1, 2, 5, 10, 20, 30, or 60 readings/minute. Maximum record length: 8000 readings. Class Specification interval: 1-year and 2-year tables. Specs from Fluke 753 documenting process calibrator datasheet. Confirm firmware, pressure-module kit, and whether HART workflows require a 754.



MODEL

Fluke 753

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

753

LISTING

<https://aumictechlabs.com/products/753-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 753 Documenting Process Calibrator is a hand-held instrument for calibrating, maintaining, and troubleshooting process instrumentation in the field. It delivers simultaneous source and measurement capabilities across voltage, current, resistance, temperature, and frequency, automating calibration workflows while capturing data for regulatory compliance with ISO 9000, FDA, EPA, and OSHA standards. Technical Specifications Voltage DC: Four ranges from 100.000 mV to 300.00 V with 1-year accuracy of 0.02% + 0.005 mV (100 mV range) to 0.05% + 0.05 V (300 V range). 2-year accuracy degrades to 0.03%–0.07% depending on range. Voltage AC: 3 V input (40 Hz to 500 Hz) with 1-year accuracy of 0.5% + 0.002 V; 2-year accuracy of 1.0% + 0.004 V. Current DC: Two ranges - 30.000 mA and 110.00 mA - with 1-year accuracy of 0.01% +

5 μ A and 0.01% + 20 μ A respectively. 2-year accuracy increases to 0.015%. Resistance: Three ranges from 10.000 Ω to 1.0000 k Ω with 1-year accuracy of 0.05% + 50 m Ω (10 Ω and 100 Ω ranges) or 0.05% + 500 m Ω (1 k Ω range). Frequency: Coverage from 0.1 Hz to 50.00 kHz across six ranges with 1-year accuracy values including $\pm$ 0.05 Hz (0.1–10.99 Hz), $\pm$ 0.5 Hz (110.1–1100.0 Hz), and $\pm$ 0.05 kHz (11.01–50.00 kHz). Temperature: Measures RTDs and thermocouples. Pressure: Sources and measures via optional Fluke 700Pxx Pressure Modules (29 modules available). Ranges span 0–1 in H₂O (0–0.25 kPa) to 0–10,000 psi (0–70,000 kPa) with basic accuracy starting at 0.05%. Key Features Bright white dual display for simultaneous viewing of sourced and measured parameters Rechargeable Li-Ion battery with 8+ hours typical operating life Paperless calibration management via Fluke DPC/Track and asset management software integration Modular pressure measurement with 29 optional modules Typical Applications Calibration of process transmitters, pressure instruments, temperature sensors, and control loop validation in manufacturing, pharmaceutical, and utility environments requiring documented traceability. Compatibility & Integration Works with Fluke DPC/Track software and popular asset management platforms for streamlined documentation and regulatory reporting.

Features & description

From manufacturer datasheet

Features

- Documenting calibrator with stored results upload
- Simultaneous measure and source
- Selectable loop supply for transmitters
- Autostep, ramp, and trip-detect functions
- Optional pressure modules
- 1-year and 2-year accuracy tables

Applications

- Documenting transmitter and loop calibrations
- Source/measure of process V, mA, ohms, frequency, and temperature
- Pressure calibration with Fluke 700/750 series modules
- Automated as-found/as-left workflows with PC download

753 Characteristics / Specifications

PARAMETER	VALUE
Model	753
Manufacturer	Fluke
Instrument Type	Documenting Process Calibrator
Alias	753; Fluke 753
DC voltage measure ranges	100.000 mV; 3.00000 V; 30.0000 V; 300.00 V
Frequency measure	1.00 Hz to 50.00 kHz
Loop supply voltage	selectable 26 V
Loop supply accuracy	10%; 18 V minimum at 22 mA
Loop supply max current	25 mA short-circuit protected
Maximum input voltage	50 V DC
Measure functions	V, I, R, frequency, temperature, pressure
Source functions	V, I, R, frequency, temperature
Reading rates	1, 2, 5, 10, 20, 30, or 60 readings/minute
Maximum record length	8000 readings class
Specification interval	1-year and 2-year tables Notes Specs from Fluke 753 documenting process calibrator datasheet. Confirm firmware, pressure-module kit, and whether HART workflows require a 754.

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
Model	753
Manufacturer	Fluke
Instrument Type	Documenting Process Calibrator
Alias	753; Fluke 753
DC voltage measure ranges	100.000 mV; 3.00000 V; 30.0000 V; 300.00 V
DC voltage measure 1-year 100 mV: 0.02% + 0.005 mV DC voltage measure 1-year 3 V: 0.02% + 0.00005 V DC voltage measure 1-year 30 V: 0.02% + 0.0005 V DC voltage measure 1-year 300 V: 0.05% + 0.05 V AC voltage measure 3 V 40-500 Hz 1-year: 0.5% + 0.002 V DC current measure 30 mA 1-year: 0.01% + 5 uA DC current measure 110 mA 1-year: 0.01% + 20 uA Resistance measure 10 ohm 1-year: 0.05% + 50 mohm Resistance measure 100 ohm 1-year: 0.05% + 50 mohm Resistance measure 1 kohm 1-year: 0.05% + 500 mohm Resistance measure 10 kohm 1-year: 0.1% + 10 ohm Frequency measure: 1.00 Hz to 50.00 kHz DC voltage source 100 mV 1-year: 0.01% + 0.005 mV DC voltage source 15 V 1-year: 0.01% + 0.0005 V DC current source 22 mA 1-year: 0.01% + 0.003 mA Current sink simulate 1-year: 0.02% + 0.007 mA	
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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.