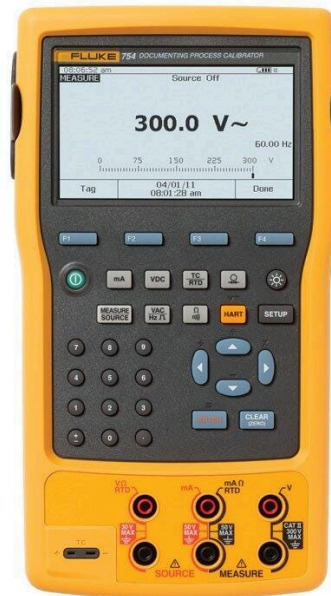


Fluke 754 Documenting Process Calibrator-HART



Key features

- Complete pressure, temperature, and mA loop calibrator
- Troubleshoot and calibrate HART smart digital transmitters
- Create calibration procedures and automatically document results
- Connect to calibration management software

Product overview: Fluke 754 Documenting Process Calibrator-HART

All-in-One Multi-Function Calibrator for Process Professionals

Maximize your investment with the **Fluke 754 Documenting Process Calibrator-HART**—a portable, rugged, and versatile calibrator trusted by professionals worldwide. Whether you're calibrating instruments, troubleshooting, or performing routine maintenance, the Fluke 754 helps you work faster and more efficiently.

Why Choose the Fluke 754?

- **Multi-function capability:** Source, simulate, and measure pressure, temperature, and electrical signals—all in one handheld tool.
- **Integrated HART communication:** Calibrate and maintain HART smart transmitters and instrumentation without a separate communicator.
- **Bright dual display:** View sourced and measured parameters at the same time for faster, error-free work.
- **Long battery life:** Rechargeable Li-Ion battery delivers up to 10 hours of operation, plus direct AC power support.

- **Seamless documentation:** Automate calibration procedures, store results, and ensure compliance with ISO 9000, FDA, EPA, and OSHA standards.
- **Portable and rugged:** Designed for demanding industrial environments.

Key Measurement and Source Capabilities

- AC/DC voltage
- mA loop with 24V loop power
- Pressure (compatible with Fluke 750P Series Pressure Modules)
- Thermocouples & RTDs
- Frequency
- Resistance

Enhanced Process Calibration. Simplified.

The Fluke 754 is more than just a calibrator. Its built-in HART interface lets you perform nearly all digital communicator tasks. Easily handle fast-pulsed RTD transmitters and PLCs, custom auto-step and ramping, custom units, programmable measurement delay, and one- or two-point switch testing—all with one device.

Download procedures, lists, and instructions created in your calibration management software, or upload calibration results for documentation and analysis. The Fluke 754 supports a full week of procedures and is compatible with leading asset management solutions.

Go Paperless with Fluke DPCTrack2 Software

For a seamless, paperless calibration management experience, pair your **Fluke 754 Documenting Process Calibrator-HART** with **Fluke DPCTrack2 Calibration Management Software**. Simplify record-keeping, automate procedures, and streamline compliance.

Ready to Work Smarter? Upgrade to the Fluke 754 Today.

Experience the power, precision, and reliability of the Fluke 754 Documenting Process Calibrator-HART—the process industry’s most trusted multi-function calibrator.

Specifications: Fluke 754 Documenting Process Calibrator-HART

Measurement Accuracy			
	Range/ Resolution	1 Year	2 Years
Voltage DC	100.000 mV	0.02% + 0.005 mV	0.03% + 0.005 mV
	3.00000 V	0.02% + 0.00005 V	0.03% + 0.00005 V
	30.0000 V	0.02% + 0.0005 V	0.03% + 0.0005 V
	300.00 V	0.05% + 0.05 V	0.07% + 0.05 V
Voltage AC	3.000 V (40 Hz to 500 Hz) / 0.001 V	0.5% + 0.002 V	1.0% + 0.004 V
	30.00 V (40 Hz to 500 Hz) / 0.01 V	0.5% + 0.02 V	1.0% + 0.04 V
	300.0 V (40 Hz to 500 Hz) / 0.1 V	0.5% + 0.2 V	1.0% + 0.2 V
Current DC	30.000 mA	0.01% + 5 uA	0.015% + 7 uA
	110.00 mA	0.01% + 20 uA	0.015% + 30 uA

Resistance	10.000 Ω	0.05% + 50 mΩ	0.07% + 70 mΩ	
	100.00 Ω	0.05% + 50 mΩ	0.07% + 70 mΩ	
	1.0000 kΩ	0.05% + 500 mΩ	0.07% + 0.5 Ω	
	10.000 kΩ	0.1% + 10 Ω	0.15% + 15 Ω	
Frequency	1.00 to 110.00 Hz / 0.01 Hz		0.05 Hz	
	110.1 to 1100.0 Hz / 0.1 Hz		0.5 Hz	
	1.101 to 11.000 kHz / 0.001 kHz		0.005 kHz	
	11.01 to 50.00 kHz / 0.01 kHz		0.05 kHz	
Source Accuracy				
		1 Year	2 Years	
Voltage DC	100.000 mV	0.01% + 0.005 mV	0.015% + 0.005 mV	
	1.00000 V	0.01% + 0.00005 V	0.015% + 0.0005 V	
	15.0000 V	0.01% + 0.0005 V	0.015% + 0.0005 V	
Current DC	22.000 mA (source)	0.01% + 0.003 mA	0.02% + 0.003 mA	
	Current sink (simulate)	0.02% + 0.007 mA	0.04% + 0.007 mA	
Resistance	10.000 Ω	0.01% + 10 mΩ	0.015% + 15 mΩ	
	100.00 Ω	0.01% + 20 mΩ	0.015% + 30 mΩ	
	1.0000 kΩ	0.02% + 0.2 Ω	0.03% + 0.3 Ω	
	10.000 kΩ	0.02% + 3 Ω	0.03% + 5 Ω	
Frequency	0.1 to 10.99 Hz		0.01 Hz	
	0.01 to 10.99 Hz		0.01 Hz	
	11.00 to 109.99 Hz		0.1 Hz	
	110.0 to 1099.9 Hz		0.1 Hz	
	1.100 to 21.999 kHz		0.002 kHz	
	22.000 to 50.000 kHz		0.005 kHz	
Technical Data				
Data log functions	Measure functions	Voltage, current, resistance, frequency, temperature, pressure		
	Reading rate	1, 2, 5, 10, 20, 30, or 60 readings/minute		
	Maximum record length	8000 readings (7980 for 30 or 60 readings/minute)		
	Ramp functions	Source functions	Voltage, current, resistance, frequency, temperature	
		Rate	4 steps/second	
Trip detect		Continuity or voltage (continuity detection not available when sourcing current)		

Loop power function	Voltage	Selectable, 26 V	
	Accuracy	10%, 18 V minimum at 22 mA	
	Maximum current	25 mA, short circuit protected	
	Maximum input voltage	50 V DC	
Step functions	Source functions	Voltage, current, resistance, frequency, temperature	
	Manual step	Selectable step, change with arrow buttons	
	Autostep	Fully programmable for function, start delay, stepvalue, time per step, repeat	
Environmental Specifications			
Operating temperature	-10°C to +50°C		
Storage temperature	-20°C to +60°C		
Dust/water resistance	Meets IP52, IEC 529		
Operating altitude	3000 m above mean sea level (9842 ft)		
Safety Specifications			
Agency approvals	CAN/CSA C22.2 No 1010.1-92, ASNI/ISA S82.01-1994, UL3111, and EN610-1:1993		
Mechanical and General Specifications			
Size	136 x 245 x 63 mm (5.4 x 9.6 x 2.5 in)		
Weight	1.2 kg (2.7 lb)		
Batteries	Internal Battery Pack Li-ion: 7.2V,4400mAh, 30 Wh		
Battery life	>8 hours typical		
Battery replacement	Replace without opening calibrator; no tools required		
Side port connections	Pressure module connector		
	USB Connector to interface to your PC		
	Digital instrument (HART) connector		
	Connection for optional battery charger/eliminator		
Data storage capacity	1 week of calibration procedures results		
90 day specifications	The standard specification interval for the 750 Series are 1 and 2 years.		
	Typical 90 day measurement and source accuracy can be estimated by dividing the one year "% of reading" or "% of output" specifications by 2.		
	Floor specifications, expressed as "% of full scale" or "counts" or "ohms" remain constant.		
Temperature, Resistance Temperature Detectors			
Degrees or % of reading - Type (α)	Range °C	Measure °C¹	
		1 year	2 year
100 Ω Pt (385)	-200 to 100 100 to 800	0.07°C 0.02% + 0.05°C	0.14°C 0.04% + 0.10°C

200 Ω Pt (385)	-200 to 100 100 to 630	0.07°C 0.02% + 0.05°C	0.14°C 0.04% + 0.10°C
500 Ω Pt (385)	-200 to 100 100 to 630	0.07°C 0.02% + 0.05°C	0.14°C 0.04% + 0.10°C
1000 Ω Pt (385)	-200 to 100 100 to 630	0.07°C 0.02% + 0.05°C	0.14°C 0.04% + 0.10°C
100 Ω Pt (3916)	-200 to 100 100 to 630	0.07°C 0.02% + 0.05°C	0.14°C 0.04% + 0.10°C
100 Ω Pt (3926)	-200 to 100 100 to 630	0.08°C 0.02% + 0.06°C	0.16°C 0.04% + 0.12°C
10 Ω Cu (427)	-100 to 260	0.2°C	0.4°C
120 Ω Ni (672)	-80 to 260	0.1°C	0.2°C
Source current	Source °C		Allowable current²
	1 year	2 year	
1 mA	0.05°C 0.0125% + 0.04°C	0.10°C 0.025% + 0.08°C	0.1 mA to 10 mA
500 μA	0.06°C 0.017% + 0.05°C	0.12°C 0.034% + 0.10°C	0.1 mA to 1 mA
250 μA	0.06°C 0.017% + 0.05°C	0.12°C 0.034% + 0.10°C	0.1 mA to 1 mA
150 μA	0.06 C 0.017% + 0.05°C	0.12 C 0.034% + 0.10°C	0.1 mA to 1 mA
1 mA	0.05°C 0.0125% + 0.04°C	0.10°C 0.025% + 0.08°C	0.1 mA to 10 mA
1 mA	0.05°C 0.0125% + 0.04°C	0.10°C 0.025% + 0.08°C	0.1 mA to 10 mA
3 mA	0.2°C	0.4°C	0.1 mA to 10 mA
1 mA	0.04°C	0.08°C	0.1 mA to 10 mA

1. For two and three-wire RTD measurements, add 0.4°C to the specifications.
2. Supports pulsed transmitters and PLCs with pulse times as short as 1 ms

Temperature, Thermocouples

Type	Source °C	Measure °C		Source °C	
		1 year	2 years	1 year	2 years
E	-250 to -200	1.3	2.0	0.6	0.9
	-200 to -100	0.5	0.8	0.3	0.4
	-100 to 600	0.3	0.4	0.3	0.4
	600 to 1000	0.4	0.6	0.2	0.3
N	-200 to -100	1.0	1.5	0.6	0.9
	-100 to 900	0.5	0.8	0.5	0.8
	900 to 1300	0.6	0.9	0.3	0.4

J	-210 to -100	0.6	0.9	0.3	0.4
	-100 to 800	0.3	0.4	0.2	0.3
	800 to 1200	0.5	0.8	0.3	0.3
K	-200 to -100	0.7	1.0	0.4	0.6
	-100 to 400	0.3	0.4	0.3	0.4
	400 to 1200	0.5	0.8	0.3	0.4
	1200 to 1372	0.7	1.0	0.3	0.4
T	-250 to -200	1.7	2.5	0.9	1.4
	-200 to 0	0.6	0.9	0.4	0.6
	0 to 400	0.3	0.4	0.3	0.4
B	600 to 800	1.3	2.0	1.0	1.5
	800 to 1000	1.0	1.5	0.8	1.2
	1000 to 1820	0.9	1.3	0.8	1.2
R	-20 to 0	2.3	2.8	1.2	1.8
	0 to 100	1.5	2.2	1.1	1.7
	100 to 1767	1.0	1.5	0.9	1.4
S	-20 to 0	2.3	2.8	1.2	1.8
	0 to 200	1.5	2.1	1.1	1.7
	200 to 1400	0.9	1.4	0.9	1.4
	1400 to 1767	1.1	1.7	1.0	1.5
C	0 to 800	0.6	0.9	0.6	0.9
	800 to 1200	0.8	1.2	0.7	1.0
	1200 to 1800	1.1	1.6	0.9	1.4
	1800 to 2316	2.0	3.0	1.3	2.0
L	-200 to -100	0.6	0.9	0.3	0.4
	-100 to 800	0.3	0.4	0.2	0.3
	800 to 900	0.5	0.8	0.2	0.3
U	-200 to 0	0.6	0.9	0.4	0.6
	0 to 600	0.3	0.4	0.3	0.4
BP	0 to 1000	1.0	1.5	0.4	0.6
	1000 to 2000	1.6	2.4	0.6	0.9
	2000 to 2500	2.0	3.0	0.8	1.2
XK	-200 to 300	0.2	0.3	0.2	0.5
	300 to 800	0.4	0.6	0.3	0.6

Ordering information



Fluke 754

Fluke 754 Documenting Process Calibrator-HART

Includes:

- BC7240 battery charger
- Li-on BP7240 battery pack
- DPCTrack 2™ Sample Software
- Instruction manual
- NIST-traceable calibration report and data
- Three sets of TP220 test probes
- Three sets of "extended tooth" alligator clips
- Three sets stackable test leads
- Two sets AC280 hook clips
- C799 Soft Field Case
- USB communication cable, Fluke 754HHC HART communications cable

FPC1S-FLUKE75X-1

Premium Care 1-Year Standard Plan for Fluke 754 and 753

Includes:

- Premium Care 1-Year Standard Plan

FPC3S-FLUKE75X-1

Premium Care 3-Year Standard Plan for Fluke 754 and 753

Includes:

- Premium Care 3-Year Standard Plan
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FLUKE-754/FPC

Fluke 754 Bundled with Premium Care 1-Year Standard Plan

Includes:

- Premium Care 1-Year Standard Plan
 - Fluke 754
 - BC7240 battery charger
 - Li-on BP7240 battery pack
 - DPCTrack 2™ Sample Software
 - Instruction manual
 - NIST-traceable calibration report and data
 - Three sets of TP220 test probes with three sets of "extended tooth" alligator clips
 - Two sets AC280 hook clips
 - C799 Soft Field Case
 - USB communication cable, Fluke 754HHC HART communications cable
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Fluke. *Keeping your world up and running.®*

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