Fluke 750 Series

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Documenting Process Calibrators: Work smarter. Work faster.

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Fluke 750 Series Documenting Process Calibrators: Work Smarter. Work Faster.

Whether you're calibrating instruments, troubleshooting a problem or running routine maintenance, Fluke 750 Series process calibrators can help you get the job done faster. It does so many different tasks, so quickly and so well, it's the only process calibrator you need to carry.

- **Multifunctional.** Calibrate temperature, pressure, voltage, current, resistance, and frequency. Since it both measures and sources, you can troubleshoot and calibrate all with one rugged tool.
- **Powerful**, yet easy to use. The easy-to-follow, menu-driven display guides you through any task. Programmable calibration routines enable you to create and run automated as-found/as-left procedures to ensure fast, consistent, calibrations.
- **Records and documents results.** To support your ISO-9000 or regulatory standards, the Fluke 753, and 754 capture your calibration results, eliminating the need to juggle a pen and pad in the field. The USB interface in the Fluke 753 and 754 lets you transfer the results to a PC, thus saving the time of having to manually transcribe them when you return to the shop.
- Supports popular instrumentation management software. The 753 and 754 work with the Fluke DPC/TRACK[™] software, and with popular programs from Honeywell Meridium, Emerson, Cornerstone, Yokogawa, Prime Technologies, Intergraph and others. It allows you to create procedures, instructions, and action lists to deliver fast, easy documentation.
- Truly hand-held. Small enough to fit easily into a tool bag and to use in tight spaces. Runs an entire shift on a rechargeable Li-ion battery pack.
- **Rugged and reliable.** Overmolded urethane case stands up to rough handling in industrial environments. Calibrators offer one- or two-year calibration cycles and three-year warranty.
- Bright white display lets you read your results in any kind of light. Backlight has three (3) settings.
- **Soft keys** provide one-touch access to enhanced functions such as task lists, automated procedures, scaling, min/max, stepping and ramping, andreview memory.
- **Three operating modes** Measure, Source, or simultaneous Measure/Source, —enable technicians to troubleshoot, calibrate, or maintain instrumentation with just one tool.
- **Integrated HART communication capability** lets you program and control HART instrumentation (754 only).
- **Use it immediately.** If you've used the Fluke 74X Documenting Process Calibrator you'll be able to pick up the 75X and start using it immediately, without a learning curve.

- **Multi-lingual interface** displays instructions in English, French, German, Spanish, and Italian.
- **AutoStep** allows technicians to set the calibrator for a delayed start and a specific sequence of steps, so it can run unattended as a continuously varying test source.
- User entered values enable users to capture readings measured or sourced by other devices.
- **Custom units** allow readings to be scaled and displayed in any user-defined units.
- **Switch calibration procedures** perform fast, automated calibration of one- and two-point switches for voltage, current, temperature, and pressure.
- Differential pressure flow instrument calibration routines use a square root function to directly calibrate DP flow instruments.
- **Built-in algebraic calculator** with four functions – plus square root—stores, recalls, and performs calculations required for setting up instruments or evaluating data in the field. Use it to set the source function to a calculated value. There's no need to carry a pencil and paper or a separate calculator.
- **Programmable measurement delay** inside automated procedures permits calibrating instruments that respond slowly.



Get the knowledge straight from the product expert in these process tools videos:

719 Electric Pressure Calibrator 789 ProcessMeter™ 773 Milliamp Process Clamp Meter 754 Video Series

Online now at www.fluke.com/ptoolsvideos

Bonus feature available with product registration:

• Transmitter mode: simulate a transmitter while you get a replacement.



The Fluke 750 Calibrators, offered in two models, let you choose the right set of capabilities for your needs.

- The Fluke 753 offers simultaneous source and measure capabilities for all common process parameters. Create and execute automated procedures and automatically capture the results results. The USB interface enables two-way communication with popular PC-based instrumentation management applications.
- The **Fluke 754** offers all of the capabilities of the 753, plus the ability to maintain and calibrate selected HART transmitters without a second tool.

Capability	753	754
Source/measure	•	•
Automated procedures	•	•
Results capture	•	•
Uses all Fluke pressure modules	•	•
Transmitter mode	•	•
Serial interface	•	•
Data logging	•	•
HART communications		•
Pulsed RTD simulation to 1 ms	•	•
Li-ion battery with "Gas Gauge"	•	•

Fluke 754 HART Documenting Process Calibrator: Get HART-ability.

Process plants have taken advantage of smart transmitters, the need for a new generation of calibrators has emerged—calibrators that can communicate via industry standard digital protocols. The 754 combines HART communication capability in a documenting process calibrator to deliver an integrated communicating calibrator. This rugged, reliable tool is ideal for calibrating, maintaining, and troubleshooting HART instrumentation. The 754 offers:

- Integrated HART communication functions, permitting you to monitor, control, and calibrate HART instrumentation.
- Handling of fast pulsed RTD transmitters and PLCs, with pulses as short as 1 mS.
- Li-ion battery with 4400 mA hour life and gas gauge.



The field calibrator for HART instruments that's both powerful and easy to use.

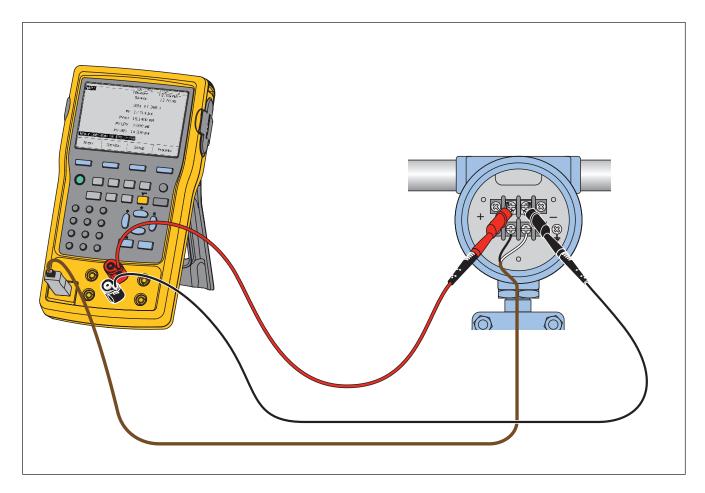
The 754 offers the most complete HART implementation of any process calibrator. The 754:

- Requires no external box or second tool for everyday HART calibration and maintenance.
- Offers fast HART communication.
- Supports popular models of HART transmitters with device-specific command support.
- Fully complies with the Data Link Layer of the HART protocol, including multiple masters, burst mode, and multi-drop configurations.
- Is easy to update as additional instruments are added and new HART versions are released.
- Is based on the 740 series calibrators, the most rugged, reliable multifunction field calibrators ever made.
- Is backed by the service and support of the Fluke organization, a member of the HART Communications Foundation.

The 754 is designed to take on nearly all the dayto-day tasks you now perform with a separate communicator. In fact, it offers many of the communication capabilities of the 475 HART communicator except for the DD interpreter, which can read command set libraries from any HART supplier. This is not necessary for daily HART maintenance.



It's easy to calibrate and maintain HART instrumentation with one powerful tool.



With the 754 DPC, you can:

- Generate precision electrical, temperature, or pressure signals for **analog stimulus** or sensor simulation.
- Simultaneously **measure** electrical, temperature, or pressure signals from **transmitter output**.
- Determine type, manufacturer, model, tag ID by interrogating HART devices.
- Read HART PV function and smart transmitter digital output while measuring analog mA output.
- Read and write HART configuration functions to make field adjustments to PV range points, damping, and other top-level configuration settings.

- Change sensor configuration on supported temperature transmitters.
- **Re-label smart transmitters** by reading and writing HART tag and message fields.
- **Clone additional transmitters** by reading and storing basic HART configurations.
- Perform **automated HART sensor trim** and output trim for selected devices in conjunction with As Found/As Left tests.
- Perform **loop test** with simultaneous analog and digital mA readout.
- Address new, fast, pulsed-excitation smart trans-mitters and PLCs.
- Control Hart Scientific Dry Block Calibrator.



HART applications

Fluke 754: The HART calibrator that is easy to use.



Versatile HART protocol support

The 754 supports the commands contained in HART protocol version 5.7. The 754 supports a substantial set of HART instructions:

• **Universal commands**—provide functions that are implemented in **all field devices**, for example, read manufacturer and device type, read primary variable (PV), or read current output and percent of span

- **Common practice commands**—provide functions that are common to **many but not all field devices**, for example read multiple variables, set damping time, or perform loop test
- **Device-specific commands**—provide functions that are **unique to a particular field device**, for example sensor trim. The 754 supports these devices:

Today's 754 supports device-specific instructions for a variety of popular instruments. Additional support may be added periodically with a simple software update available on diskette or via download for a modest upgrade fee.

HART operating modes supported

- For Point to Point operation, the most commonly used mode, connects the 754 to a single HART device in a 4-20 mA loop.
- In **Multi-Drop** mode, several HART instruments can be bussed together. The 754 searches for each, identifies addresses in use, and allows you to select the instrument for calibration and related operations.
- In **Burst Mode**, the HART instrument transmits bursts of data without waiting to be interrogated by a master unit. The 754 can take transmitters out of burst mode during test or calibration, then later restore them to burst mode.

Manufacturer	Pressure instruments	Temperature instruments	Coriolis instruments
ABB/Kent-Taylor	600T	658T ¹	
ABB/ Hartmann & Braun	Contrans P, ¹ AS 800 Series		
Endress & Hauser	CERABAR S, CERABAR M, DELTABAR S	TMT 122 ¹ , TMT 182 ¹ , TMT 162 ¹	
Foxboro Eckardt		TI/RTT201	
Foxboro/Invensys	I/A Pressure		
Fuji	FCX FCXAZ	FRC	
Honeywell	ST3000	STT25T ¹ , STT25H ¹	
Micro Motion			2000 2000 IS 9701 9712 9739
Moore Products		3441	
Rosemount	1151 2088 3001C 3051, 3051S	3044C 644 3144 3244, 3144P	
Siemens	SITRANS P DS SITRANS P ES		
SMAR	LD301	TT3011	
Viatran	I/A Pressure		
Wika	UNITRANS	T32H ¹	
Yokogawa	EJA	YTA 110, 310 and 320	

¹Sensor Trim not supported

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Why use "smart" instrumentation?

Like most process plants, your organization is probably facing the dual challenges of maximizing productivity while minimizing maintenance costs. "Smart" digital transmitters offer superior performance and reliability, while saving time and effort in maintenance and calibration. Manufacturers of field instruments have helped accelerate the changeover by offering smart transmitters at prices nearly as low as analog units. As digital instruments using the HART protocol quickly become the standard, communicators and calibrators are becoming essential everyday tools.

What is HART?

HART, the **H**ighway **A**ddressable **R**emote **T**ransducer protocol, uses a 1200 baud Frequency Shift Keying (FSK) signal to superimpose digital information on the conventional 4-20 mA analog signal.

Why use the HART protocol?

HART is an industry standard developed to define the communications protocol between intelligent field devices and a control system, HART is the most widely used digital communication protocol in the process industry. More than five million HART field instruments are installed in more than 100,000 plants worldwide.

The HART protocol:

- Is supported by all of the major suppliers of process field instruments supported by the HART Communication Foundation, an industry-wide non-profit organization. See the http://www.hartcomm.org for information on the HART standard.
- Preserves present control strategies.
- Allows traditional 4–20 mA signals and digital communication to share the same two-wire loops.
- Provides important information for installation and maintenance: Tag IDs, measured values, range and span data, product information and diagnostics.
- Reduces operation costs by making it easier to manage and fully utilize "smart" instrument networks.

Fluke 789 ProcessMeter™



The Fluke-789 doubles your power giving you a multimeter and a loop calibrator in one tool.

Key 789 features:

- 24 V loop power supply
- HART mode setting with loop power (adds 250 ohm resistor)
- 200 % larger dual display
- mA drive up to 1,200 ohms
- Enhanced backlight with (2) brightness settings
- Improved battery power with (4) AA batteries
- 0 % to 100 % mA Span Check buttons to toggle from 4 mA to 20 mA
- Infrared I/O serial port compatible with FlukeView Software
- 5 V measurement capability on the 4 V range for precise 1 V to 5 V measurements
- DMM designed to meet 1000 V IEC 1010 CAT III standards
- Precision 1000 V, 400 mA digital multimeter Measure ac and dc volts, ac and dc current, resistance, continuity and frequency
- True-rms ac voltage measurement
- Frequency measurement to 20 kHz
- 20 mA dc current source/loop calibrator/simulator Manual Step (100 %, 25 %, Coarse, Fine) plus Auto Step and Auto Ramp
- Externally accessible battery for easy battery changes
- V overload protection on V, ohms, frequency, mA (backed up by 440 mA 1000 V fuse)



Automatically record and document your work

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Fluke 750SW DPC/TRACK 2 software includes an instrumentation data-base that makes it easy to manage your instrumentation, create and schedule tests, load and unload the 753 or 754, print a variety of standard reports, and manage calibration data.

Print standard reports automatically. The software assembles pre-formatted reports from your database files, saving time and reducing errors. Reports include calibration certificates, instruments due for calibration, inventory characteristics, calibration histories, calibration procedures, and traceability to instruments touched.

Documentation of results

The scheduling of calibrations, creation of procedures and documentation of your calibration results are facilitated by a number of instrumentation management software packages:

Fluke DPC/TRACK[™]





 Immersion Process
 PRM (Plant Resource

 nt, (formerly mount).
 Manager) from Yokogawa

 Electric Corporation.



On Time Support Process/Track

All trademarks are the property of their respective holders.



To see the Fluke 750 Series calibrators in action, call 1 800 44 FLUKE (U.S.), 31 40 2 675 200 (Europe), 1 425 446 5500 (other countries), or your local Fluke representative for a demo. Visit our Web site: www.fluke.com/Processtools



The Fluke-C799 Field soft case is included with every 750 series documenting process calibrator. This unique case has many useful features that allow the calibrator to be operated inside the case:

- Clear window protects from the elements but allows access of 75X keyboard
- Input/output slot; bring test leads from inside the case to connect to what you are testing.
- Open the side pockets to connect a pressure module
- Ample storage for a pressure module, hand pumps all test leads and interconnect cables.

Measurement function specifications Confidence Interval: k=3

DC voltage measurement

	Accuracy (% of reading + floor)			
Range (full scale)	1 year	2 years		
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		

Temperature coefficient: (0.001 % reading + 0.0002 % range)/°C from -10 °C to 18 °C and 28 °C to 50 °C, 100.000 mV range: 0.001 % of

reading + 0.001 % of range Input impedance: >4 $M\Omega$

Maximum input voltage: 300 V rms

Normal mode rejection: >100 dB at 50 Hx or 60 Hx nominal

Specifications are valid to 110 % of range (except for 300 V range)

AC voltage measurement

Range	Resolution	% of reading + floor		
40 Hz to 500 Hz		1 year	2 year	
3.000 V	0.001 V	.5 % + 0.002 V	1.0 % + 0.004 V	
30.00 V	0.01 V	0.5 % + 0.02 V	1.0 % + 0.04 V	
300.0 V	0.1 V	0.5 % + 0.2 V	1.0 % + 0.2 V	

Input impedance: >4 M Ω and <100 pF

Input coupling: AC

Maximum input voltage: 300 V, IEC 61010 300V CAT II Temperature coefficient: 5 % of specified accuracy / °C (<18 °C or >28 °C) Specifications apply for 9 % to 100 % of voltage range.

DC current measurement

	Accuracy (% of reading + floor)				
Range (full scale)	1 year	2 years			
30.000 mA	0.01 % + 5 uA	0.015 % + 7 uA			
110.00 mA	0.01 % + 20 uA	0.015 % + 30 uA			

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Temperature coefficient: (3 % of specified accuracy)/°C from -10 °C to 18 °C and 28 °C to 50 °C Normal mode rejection: 90 dB at 50 or 60 Hz nominal and 60 dB at 1200 Hz

and 2200 Hz (HART signals)

Resistance measurement

Accuracy (% of reading + ohms)			
1 year	2 years		
0.05 % + 50 mΩ	0.07 % + 70 mΩ		
0.05 % + 50 mΩ	0.07 % + 70 Ω		
$0.05 \% + 0.5 \Omega$	0.07 % + 0.5 Ω		
0.1 % + 10 Ω	0.15 % + 15 Ω		
	$\frac{1 \text{ year}}{0.05 \% + 50 \text{ m}\Omega}$ 0.05 % + 50 mΩ 0.05 % + 0.5 Ω		

Temperature coefficient: (3 % of specified accuracy)/°C from -10 °C to 18 °C and 28 °C to 50 °C

Maximum input voltage: 50 V dc

Continuity: Continuous tone < 25Ω , No tone > 400Ω Specifications are valid to 110 % of range

Frequency measurement

	Resolution	Accuracy
Range ¹		2 years
1.00 Hz to 110.00 Hz	0.01 Hz	0.05 Hz
110.1 Hz to 1100.0 Hz	0.1 Hz	0.5 Hz
1.101 kHz to 11.000 kHz	0.001 kHz	0.005 kHz
11.01 kHz to 50.00 kHz	0.01 kHz	0.05 kHz

¹For frequencies < 109.99 Hz, specification applies for signals with slew rates > 5 V/ms Minimum amplitude for Hz measurement: (Squarewaves) 1 Hz to 1 kHz, 300 mV p-p; 1 kHz to 30 kHz, 1.4 V p-p; > 30 kHz, 2.8 V p-p Maximum input: 1 Hz to 1 kHz, 300 V rms; > 1 kHz, 30 V rms Input impedance: $4 M\Omega$

Sourcing (simulation) function specifications Confidence Interval: k=3

DC voltage output

	Accuracy (% of output + floor)			
Range (full scale)	1 year	2 years		
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		

Temperature coefficient: (0.001 % output + 0.001 % f.s.)/°C from -10 °C to 18 °C and 28 °C to 50 °C

Maximum output current: 10 mA

Specifications are valid to 110 % of range, 100 mV and 1 V ranges

DC current output

	Accuracy (% of output + floor)				
Range (full scale)	1 year	2 years			
22.000 mA	0.01 % + 0.003 mA	0.02 % + 0.003 mÅ			
Current sink (sim-	0.02 % + 0.007 mA	0.04 % + 0.007 mA			
ulate transmitter)					

Specification applies from 0.1 mA to 22 mA; below 2 mA typical accuracy is 0.15 % of full scale

Maximum burden voltage: 18 V

Temperature coefficient: 3 % of specified accuracy/°C from -10 °C to 18 °C and 28 °C to 50 °C

Resistance sourcing

	Accuracy (% of	Accuracy (% of output + ohms)			
Range	1 year	2 years			
10.000 Ω	0.01 % + 10 mΩ	$0.015 \% + 15 m\Omega$			
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			

Temperature coefficient: 0.01 % f.s./°C from -10 °C to 18 °C and 28 °C to 50 °C Maximum and minimum current through source resistance:

	Maximum	Minimum			
10 Ω range:	10 mA dc	0.1 mĀ dc			
100 Ω range:	10 mA dc	0.1 mĀ dc			
1.0 kΩ range:	1 mÅ dc	0.01 mA dc			
10 kΩ range:	1 mA dc	0.01 mA dc			
Specifications valid to 110 % of range					

Frequency sourcing

Range	Specification		
	2 years		
Sinewave: 0.1 Hz to 10.99 Hz	0.01 Hz		
Squarewave: 0.01 Hz to 10.99 Hz	0.01 Hz		
Sine and square 11.00 Hz to 109.99 Hz	0.1 Hz		
Sine and square 110.0 Hz to 1099.9 Hz	0.1 Hz		
Sine and square 1.100 kHz to 21.999 kHz	0.002 kHz		
Sine and square 22.000 kHz to 50.000 kHz	0.005 kHz		

Waveform choices: Zero-symmetric sine wave or positive 50 % duty-cycle square wave Square wave amplitude: 0.1 V to 15 V p-p

Square wave amplitude accuracy: 0.01 kHz to 1 kHz: 1 % p-p output + 75 mV,

1 kHz to 50 kHz: 10 % p-p output + 75 mV Sine wave amplitude: 0.1 V to 30 V p-p Sine wave amplitude accuracy, 0.1 Hz to 50 kHz: 3 % p-p output + 75 mV Maximum input voltage: ± 30 V dc



Temperature measurement and simulation specifications Confidence Interval: k=3

Temperature, Resistance Temperature Detectors¹

Degrees or % of reading								
Τуре (α)	Range °C	Measure °C ²		Source	Sourc	Allowable		
		1 year	2 years	current	1 year	2 years	current ³	
100 Ω Pt (385)	-200 to 100	0.07 °C	0.14 °C	1 mA	0.05 °C	0.10 °C	0.1 mA to 10 mA	
	100 to 800	0.02 % + 0.05 °C	0.04 % + 0.10 °C	1	0.0125 % + 0.04 °C	0.025 % + 0.08 °C		
200 Ω Pt (385)	-200 to 100	0.07 °C	0.14 °C	500 µA	0.06 °C	0.12 °C	0.1 mA to 1 mA	
	100 to 630	0.02 % + 0.05 °C	0.04 % + 0.10 °C]	0.017 % + 0.05 ℃	0.034 % + 0.10 °C		
500 Ω Pt (385)	-200 to 100	0.07 °C	0.14 °C	250 µA	0.06 °C	0.12 °C	0.1 mA to 1 mA	
	100 to 630	0.02 % + 0.05 °C	0.04 % + 0.10 °C]	0.017% + 0.05 °C	0.034 % + 0.10 °C		
1000 Ω Pt (385)	-200 to 100	0.07 °C	0.14 °C	150 µA	0.06 C	0.12 C	0.1 mA to 1 mA	
	100 to 630	0.02 % + 0.05 °C	0.04% + 0.10 °C]	0.017 % + 0.05 ℃	0.034 % + 0.10 °C		
100 Ω Pt (3916)	-200 to 100	0.07 °C	0.14 °C	1 mA	0.05 °C	0.10 °C	0.1 mA to 10 mA	
	100 to 630	0.02 % +0.05 °C	0.04 % +0.10 °C]	0.0125 % + 0.04 °C	0.025 % + 0.08 °C		
100 Ω Pt (3926)	-200 to 100	0.08 °C	0.16 °C	1 mA	0.05 °C	0.10 °C	0.1 mA to 10 mA	
	100 to 630	0.02 % +0.06 °C	0.04 % +0.12 °C]	0.0125 % + 0.04 °C	0.025 % + 0.08 °C		
10 Ω Cu (427)	-100 to 260	0.2 °C	0.4 °C	3 mA	0.2 °C	0.4 °C	1 mA to 10 mA	
120 Ω Ni (672)	-80 to 260	0.1 °C	0.2 °C	1 mA	0.04 °C	0.08 °C	0.1 mA to 10 mA	

¹Specifications are valid to k=3 Sensor inaccuracies not included

²For two and three-wire RTD measurements, add 0.4°C to the specifications.

Resolution: 0.01 °C except 0.1 °C for 10 Ω Cu (427) **Temperature coefficient:** 0.02 °C/°C source, (<18°C or >28°C), 0.01 °C/C for measure

Maximum input voltage: 30 V

³Supports pulsed transmitters and PLCs with pulse times as short as 1 ms RTD reference: Pt(385): EC 60751, 2008; (3916): JIS C 1604, 1981; Pt(3926), Cu(427), Ni(672): Minco Application Aid #18

Temperature, Thermocouples

Туре	Source °C	Meas	ure °C	Source °C			
		1 year	2 years	1 year	2 years		
Е	-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		
Ν	-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		
l	-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		
Т	-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		
В	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		

Туре	Source °C	Meas	ure °C	Source °C		
		1 year	2 years	1 year	2 years	
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	
ХК	-200 to 300	0.2	0.3	0.2	0.5	
	300 to 800	0.4	0.6	0.3	0.6	

Sensor inaccuracies not included. Accuracy with external cold junction; for internal junction add 0.2 °C Resolution: 0.1 °C

Temperature scale: ITS-90 or IPTS-68, selectable (90 is default)

Compensation: ITS-90 per NIST Monograph 175 for B,R,S,E,J,K,N,T; IPTS-68

per IEC 584-1 for B,R,S,E,J,K,T; IPTS-68 per DIN 43710 for L,U. GOST P 8.585-2001 for BP and XK, ASTM E988-96 for C (W5Re/W26Re)

Temperature coefficient: 0.05°C/°C (<18°C or >28°C)

 0.07° C/°C for C type > 1800°C and for BP type > 2000°C Instrument operating temperature: 0 °C to 50 °C for C and BP type

thermocouples / -10 °C to 50°C for all other types

Normal mode rejection: 65 dB at 50 Hz or 60 Hz nominal

Why you can depend on Fluke calibrator specifications

Specifications must be carefully considered when comparing calibrators from different vendors.

For example, Fluke specifications use a 3-sigma confidence interval (k = 3). This means that 99.7 % of measurements will remain in specification over the stated period of time. Other manufacturers use a 2-sigma confidence interval (k = 2). This means that 95.4 % of measurements will remain in specification over the stated period of time so one in 20 instruments are statistically likely to fail to perform to their specifications.

- The most important components of a process calibrator specification are: • Reference uncertainty. Performance of a calibrator at 23 °C ± 3 °C at the time it is verified by the manufacturer. This specification does not include the effects of time and temperature, two of the largest components of calibrator error.
- Time. Fluke 750 Series calibrators are delivered with both one-year and two-year specs, to limit your calibration support costs. You choose your cal interval based upon the performance you need.
- **Temperature.** Fluke process calibrator specs reflect performance from 18 °C to 28 °C. Compensation factors are provided to permit specified use of the calibrators over a wide -10 °C to 50 °C range.
- Allowance for traceability. Fluke specs are not relative specs, but total specs, including an allowance for uncertainty of standards that provide traceability to national standards.

For more information, view our interpreting specifications webinar or refer to the application note "Understanding Specifications For Process Calibrators."



Pressure specifications

The Fluke family of 29 pressure modules:

Covers virtually any pressure application including gage, differential, dual (compound), absolute, and vacuum.

- Display pressure readings in any of ten different pressure units you specify in the calibrator setup.
- Rugged urethane molded cases protect the modules from rough handling and harsh conditions.
- Features internal temperature compensation from 0 °C to 50 °C for full-accuracy performance.
- Includes NIST-traceable calibration certificate.
- Modules can be calibrated locally, helping to control costs.



Range/ Resolution	Range (approx)/ Resolution	Reference uncertainty (23 ± 3 °C)	Stability (1 year)	Temperature (0 to 50 °C)	Total ¹ uncertainty	High ² side media	Low ² side media	Fitting material	Max over- pressure (x nominal)
1 in. H ₂ 0/0.001	0.25 kPa/0.0002	0.300	0.025	0.025	0.350	Dry	Dry	316 SS	30x
10 in. H ₂ 0/0.01	2.5 kPa/0.002	0.200	0.050	0.050	0.300	Dry	Dry	316 SS	Зх
1 psi/0.0001	6900 Pa/0.7	0.150	0.070	0.080	0.300	Dry	Dry	316 SS	Зx
1 psi/0.0001	6900 Pa/0.7	0.100	0.020	0.030	0.150	316 SS	Dry	316 SS	Зx
5 psi/0.0001	34 kPa/0.001	0.050	0.020	0.030	0.100	Dry	Dry	316 SS	Зx
5 psi/0.0001	34 kPa/0.001	0.025	0.010	0.015	0.050	316 SS	Dry	316 SS	Зx
15 psi/0.001	103 kPa/0.01	0.025	0.010	0.015	0.050	Dry	Dry	316 SS	Зх
15 psi/0.001	103 kPa/0.01	0.025	0.010	0.015	0.050	316 SS	Dry	316 SS	Зх
30 psi/0.001	207 kPa/0.01	0.025	0.010	0.015	0.050	316 SS	N/A	316 SS	Зх
100 psi/0.01	690 kPa/0.07	0.025	0.010	0.015	0.050	316 SS	N/A	316 SS	Зх
300 psi / 0.01	2070 kPa / 0.1	0.025	0.010	0.015	0.050	316 SS	N/A	316 SS	Зх
500 psi/0.01	3400 kPa/0.1	0.025	0.010	0.015	0.050	316 SS	N/A	316 SS	Зх
1000 psi/0.1	6900 kPa/0.7	0.025	0.010	0.015	0.050	316 SS	N/A	316 SS	Зх
1500 psi/0.1	10 MPa/0.001	0.025	0.010	0.015	0.050	316 SS	N/A	316 SS	2x
ompatible with F	luke 701 or 702)								
5 psi/0.0001	34 kPa/0.001	0.050	0.010	0.010	0.070	316 SS	N/A	316 SS	Зх
15 psi/0.001	103 kPa/0.01	0.050	0.010	0.010	0.070	316 SS	N/A	316 SS	Зх
30 psi/0.001	207 kPa/0.01	0.050	0.010	0.010	0.070	316 SS	N/A	316 SS	Зх
100 psi/0.01	690 kPa/0.07	0.050	0.010	0.010	0.070	316 SS	N/A	316 SS	Зх
mpatible with Flu	ıke 701 or 702)								
-5 psi/0.0001	-34 kPa/0.001	0.040	0.015	0.015	0.070	316 SS	Dry	316 SS	Зх
-15 psi/0.001	-103 kPa/0.01	0.040	0.015	0.015	0.070	316 SS	Dry	316 SS	Зх
±1 psi/0.0001	±6900 Pa/0.7	0.150	0.025	0.025	0.200	316 SS	Dry	316 SS	Зх
±5 psi/0.0001	±34 kPa/0.001	0.040	0.015	0.015	0.070	316 SS	Dry	316 SS	Зх
	±103 kPa/0.01	0.025	0.010	0.015	0.050		Dry	316 SS	Зх
		0.025	0.010	0.015	0.050		N/A	316 SS	Зх
									Зx
-15/200 psi/0.01	-100/1380 kPa/0.1	0.040	0.015	0.015	0.070	316 SS	N/A	316 SS	Зх
3000 psi/0.1	20.7 M Pa/0.001	0.050	0.010	0.020	0.080	C276	N/A	C276	2x
5000 psi/0.1	34 M Pa/0.001	0.050	0.010	0.020	0.080	C276	N/A	C276	2x
10000 psi/1	69 M Pa/0.007	0.050	0.010	0.020	0.080	C276	N/A	C276	1.5x
	Resolution 1 in. H ₂ 0/0.001 10 in. H ₂ 0/0.001 1 psi/0.0001 1 psi/0.0001 5 psi/0.0001 5 psi/0.0001 5 psi/0.0001 15 psi/0.001 15 psi/0.001 30 psi/0.001 100 psi/0.01 300 psi/0.001 100 psi/0.01 30 psi/0.001 100 psi/0.01 30 psi/0.001 15 psi/0.001 15 psi/0.001 15 psi/0.001 15 psi/0.001 15 psi/0.001 -15 psi/0.001 -15 psi/0.001 -15 psi/0.001 -15/30 psi/0.001 -15/100 psi/0.01 -15/200 psi/0.01 -15/200 psi/0.1 3000 psi/0.1 5000 psi/0.1	Resolution Resolution 1 in. $H_2O/0.001$ 0.25 kPa/0.0002 10 in. $H_2O/0.01$ 0.25 kPa/0.002 1 psi/0.0001 6900 Pa/0.7 1 psi/0.0001 6900 Pa/0.7 5 psi/0.0001 34 kPa/0.001 5 psi/0.0001 34 kPa/0.001 15 psi/0.001 103 kPa/0.01 15 psi/0.001 207 kPa/0.01 100 psi/0.01 6900 kPa/0.7 30 psi/0.001 103 kPa/0.01 100 psi/0.01 690 kPa/0.07 300 psi/0.01 207 kPa/0.01 1000 psi/0.1 6900 kPa/0.7 1500 psi/0.1 6900 kPa/0.7 1500 psi/0.1 6900 kPa/0.7 1500 psi/0.1 10 MPa/0.001 000 psi/0.1 10 MPa/0.001 15 psi/0.001 34 kPa/0.001 15 psi/0.001 207 kPa/0.01 100 psi/0.01 6900 kPa/0.7 15 psi/0.001 207 kPa/0.01 100 psi/0.01 690 kPa/0.07 mpatible with Fluke 701 or 702] 7 5 psi/0.0001 -34 kPa/0.001 -15 psi/0.001 <	Range/ Resolution Range (approx)/ Resolution uncertainty ($23 \pm 3 \circ C$) 1 in. H ₂ 0/0.001 0.25 kPa/0.0002 0.300 10 in. H ₂ 0/0.001 2.5 kPa/0.002 0.200 1 psi/0.0001 6900 Pa/0.7 0.150 1 psi/0.0001 6900 Pa/0.7 0.100 5 psi/0.0001 34 kPa/0.001 0.025 5 psi/0.0001 34 kPa/0.001 0.025 15 psi/0.001 103 kPa/0.01 0.025 30 psi/0.001 207 kPa/0.01 0.025 30 psi/0.001 207 kPa/0.01 0.025 300 psi/0.01 2070 kPa / 0.1 0.025 300 psi/0.01 2070 kPa / 0.1 0.025 300 psi/0.01 2070 kPa / 0.1 0.025 300 psi/0.01 3400 kPa/0.7 0.025 300 psi/0.1 10 MPa/0.001 0.025 5 psi/0.001 34 kPa/0.001 0.050 15 psi/0.001 103 kPa/0.01 0.050 15 psi/0.001 207 kPa/0.01 0.050 10 psi/0.01 690 kPa/0.7 0.050 10 psi/0.01	Range/ Resolution Range (approx)/ Resolution uncertainty (23 ± 3 °C) Stability (1 year) 1 in. H ₂ O/0.001 0.25 kPa/0.0002 0.300 0.025 10 in. H ₂ O/0.001 2.5 kPa/0.002 0.200 0.050 1 psi/0.0001 6900 Pa/0.7 0.150 0.070 1 psi/0.0001 6900 Pa/0.7 0.100 0.020 5 psi/0.0001 34 kPa/0.001 0.050 0.020 5 psi/0.0001 34 kPa/0.001 0.025 0.010 15 psi/0.001 103 kPa/0.01 0.025 0.010 15 psi/0.001 207 kPa/0.01 0.025 0.010 30 psi/0.01 207 kPa/0.01 0.025 0.010 300 psi/0.01 207 kPa/0.01 0.025 0.010 300 psi/0.01 207 kPa/0.01 0.025 0.010 300 psi/0.01 3400 kPa/0.7 0.025 0.010 300 psi/0.1 10 MPa/0.001 0.025 0.010 1000 psi/0.1 6900 kPa/0.7 0.025 0.010 300 psi/0.01 34 kPa/0.001 0.050 0.01	Range/ Resolution Range (approx)/ Resolution uncertainty (23 ± 3 °C) Stability (1 year) Temperature (0 to 50 °C) 1 in. H ₂ 0/0.01 0.25 kPa/0.002 0.300 0.025 0.025 10 in. H ₂ 0/0.01 2.5 kPa/0.002 0.300 0.025 0.0050 0.050 1 psi/0.0001 6900 Pa/0.7 0.150 0.070 0.080 1 psi/0.0001 34 kPa/0.001 0.025 0.010 0.015 5 psi/0.001 34 kPa/0.001 0.025 0.010 0.015 15 psi/0.001 103 kPa/0.01 0.025 0.010 0.015 30 psi/0.001 207 kPa/0.01 0.025 0.010 0.015 300 psi/0.01 690 kPa/0.7 0.025 0.010 0.015 300 psi/0.01 207 kPa/0.01 0.025 0.010 0.015 300 psi/0.01 3400 kPa/0.7 0.025 0.010 0.015 300 psi/0.01 34 kPa/0.001 0.025 0.010 0.015 300 psi/0.01 34 kPa/0.01 0.025 0.010 0.016	Range/ Resolution Range (approx)/ Resolution uncertainty (23 ± 3 °C) Temperature (1 year) Total ¹ (0 to 50 °C) Uncertainty 1 in. H ₂ 0/0.001 0.25 kPa/0.0002 0.300 0.025 0.025 0.350 1 in. H ₂ 0/0.001 6900 Pa/0.7 0.150 0.070 0.080 0.300 1 psi/0.0001 6900 Pa/0.7 0.100 0.020 0.030 0.150 5 psi/0.0001 34 kPa/0.001 0.025 0.010 0.015 0.050 1 b psi/0.001 103 kPa/0.01 0.025 0.010 0.015 0.050 1 b psi/0.001 103 kPa/0.01 0.025 0.010 0.015 0.050 30 psi/0.001 207 kPa/0.01 0.025 0.010 0.015 0.050 30 psi/0.01 690 kPa/0.7 0.025 0.010 0.015 0.050 30 psi/0.01 690 kPa/0.7 0.025 0.010 0.015 0.050 300 psi/0.01 690 kPa/0.1 0.025 0.010 0.015 0.050 300 psi/0.01 10 MPa/0.001	Range/ Resolution Range (approx)/ Resolution uccertainty (23 ± 3 °C) Stability (1 year) Temperature (0 to 50 °C) Total 1 media 1 in. H ₂ 0/0.001 0.25 kPa/0.0002 0.300 0.025 0.025 0.350 Dry 10 in. H ₂ 0/0.001 6900 Pa/0.7 0.150 0.070 0.080 0.300 Dry 1 psi/0.0001 6900 Pa/0.7 0.100 0.020 0.030 0.150 316 SS 5 psi/0.0001 34 kPa/0.001 0.025 0.010 0.015 0.050 316 SS 15 psi/0.001 103 kPa/0.01 0.025 0.010 0.015 0.050 316 SS 30 psi/0.001 207 kPa/0.01 0.025 0.010 0.015 0.050 316 SS 300 psi/0.01 690 kPa/0.7 0.025 0.010 0.015 0.050 316 SS 300 psi/0.01 207 kPa/0.01 0.025 0.010 0.015 0.050 316 SS 300 psi/0.01 690 kPa/0.7 0.025 0.010 0.015 0.050 316 SS <td< td=""><td>Range/ Resolution Range (approx)/ Resolution uncertainty (23 ± 3 °C) Stability (1) unit, (1) uni, (1) uni, (1) unit, (1) unit, (1) unit, (1) uni, (1) unit, (1) un</td><td>Range/ Resolution Range (approx)/ Resolution uncertainty (23 ± 3 °C) Stability (1 year) Temperature (0 to 50 °C) Total uncertainty uncertainty media side media side media side media 1 in. H₂0/0.001 0.25 kPa/0.0002 0.300 0.025 0.025 0.350 Dry Dry 316 SS 1 psi/0.0001 6900 Pa/0.7 0.100 0.020 0.030 0.150 316 SS Dry Jry 316 SS 5 psi/0.0001 34 kPa/0.001 0.025 0.010 0.015 0.050 D.050 Jry Jry 316 SS 5 psi/0.001 103 kPa/0.01 0.025 0.010 0.015 0.050 Jry Jry J16 SS 30 psi/0.001 102 kPa/0.01 0.025 0.010 0.015 0.050 Jl6 SS N/A Jl6 SS 300 psi/0.01 207 kPa/0.1 0.025 0.010 0.015 0.050 Jl6 SS N/A Jl6 SS 100 psi/0.01 600 kPa/0.7 0.025 0.010 0.015 0.050 Jl6 SS N/A</td></td<>	Range/ Resolution Range (approx)/ Resolution uncertainty (23 ± 3 °C) Stability (1) unit, (1) uni, (1) uni, (1) unit, (1) unit, (1) unit, (1) uni, (1) unit, (1) un	Range/ Resolution Range (approx)/ Resolution uncertainty (23 ± 3 °C) Stability (1 year) Temperature (0 to 50 °C) Total uncertainty uncertainty media side media side media side media 1 in. H ₂ 0/0.001 0.25 kPa/0.0002 0.300 0.025 0.025 0.350 Dry Dry 316 SS 1 psi/0.0001 6900 Pa/0.7 0.100 0.020 0.030 0.150 316 SS Dry Jry 316 SS 5 psi/0.0001 34 kPa/0.001 0.025 0.010 0.015 0.050 D.050 Jry Jry 316 SS 5 psi/0.001 103 kPa/0.01 0.025 0.010 0.015 0.050 Jry Jry J16 SS 30 psi/0.001 102 kPa/0.01 0.025 0.010 0.015 0.050 Jl6 SS N/A Jl6 SS 300 psi/0.01 207 kPa/0.1 0.025 0.010 0.015 0.050 Jl6 SS N/A Jl6 SS 100 psi/0.01 600 kPa/0.7 0.025 0.010 0.015 0.050 Jl6 SS N/A

Pressure module specifications	(all specifications in % of full span. Specifications reflect a confidence interval of 95 %.)
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temperature range is 15 ° to 35 °C.

² "Dry" indicates dry air or non-corrosive gas as compatible media. "316 SS" indicates media compatible with Type 316 Stainless Steel. "C276" indicates media compatible with Hastelloy C276.

Use of pressure zero is required prior to measurement or source. Maximum overpressure specification includes common mode pressure. Modules are ξ rated. Metric adapter(s): 1/4" NPT female to male BSP/ISO 1/4-19, tapered thread, included with all modules except P29, P30, and P31. Effective October 1996, all modules include a NIST traceable certificate and test data.



General specifications

Data log function

Measure functions: Voltage, current, resistance, frequency, temperature, pressure Reading rate: 1, 2, 5, 10, 20, 30, or 60 readings per minute Maximum record length: 8000 readings (7980 for 30 or 60 readings per minute)

Ramp function

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: 26 V Accuracy: 10 %, 18 V minimum at 22 mA Maximum current: 25 mA, short-circuit protected Maximum input voltage: 50 V dc

Note: 250 Ω series resistance is automatically supplied whenever loop power is enabled on 754

HART modem interface (754 only)

Maximum input voltage: 30 V dc

Environmental specifications

All calibrator specifications apply from +18 °C to +28 °C unless stated otherwise. Operating temperature: -10 °C to 50 °C Storage temperature: -20 °C to 60 °C Operating altitude: 3000 m above mean sea level (9842 ft)

90-day specifications: The standard specification intervals 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 f.s." or "counts" or "ohms" remain constant.

Ingress protection: IP-52

Power: Internal battery pack li-ion, 7.2 V, 4400 mAh, 30 Wh; Battery life: Typical usage, >8 hours Dimensions: 136mm x 245mm x 63 mm (5.4 in x 9.6 in x 2.5 in) Weight: 1.2 kg (2.7 lb) Side port connections:

• Pressure module connector

- USB connector to interface to your PC
- Digital instrument (HART) connector

 Connection for optional battery charger/eliminator Safety: Complies with CAN/CSA C22.2 No 1010.1-92, ANSI/ISA S82.01-1994, UL3111, and EN610-1:1993. Data storage capacity:

1 week of calibration procedures and results

Ordering information

FLUKE-753 Documenting Process Calibrator FLUKE-754 Documenting Process Calibrator-HART

Standard accessories include: Three sets of stackable test leads, three sets of TP220 test probes with three sets of "extended tooth" alligator clips, two sets AC280 hook clips, BP7240 Li-ion battery pack, BC7240 battery charger, C799 field soft case, USB communication cable, getting started guide, instruction manual on CDROM, NIST traceable certificate of calibration, DPC/TRACK 2 sample software that enables upload and printing of calibration records. Model Fluke-754 includes HART communication cable. Includes C799 Field Soft Case. Includes three year warranty.

FLUKE-750SW DPC/TRACK 2 Software

Included with DPC/TRACK software: Software media, Instruction Manual, USB Cable.

FLUKE-700 Pxx Pressure Modules

Included with each Fluke Pressure Module: BP-ISO Adapter(s) (except with P29 - P31), Instruction Sheet, NIST traceable calibration report and data, one-year warranty.

Accessories

Fluke-700PMP	Pressure Pump; 100 psi/7 bar
Fluke-700LTP-1	Low Pressure Test Pump
Fluke-700PTP-1	Pneumatic Test Pump;
	400 psi/40 bar
Fluke-700HTP-1	Hydraulic Test Pump;
	10,000 psi/700 bar
Fluke-700HTH-1	Hydraulic Test Hose
Fluke-700PRV-1	Pressure Relief Valve Kit for HTP
Fluke-700-IV	Current Shunt (for mA/mA
	applications)
Fluke-700PCK	Pressure Calibration Kit
Fluke-700TC1	TC Mini–Plug Kit, 9 types
Fluke-700TC2	TC Mini-Plug Kit, JKTERS
Fluke-700TLK	Process Test lead kit
754HCC	Smart instrument
	communication cable
BC7240	Battery Charger
BP7240	Li-on Battery Pack
C700	Hard Carrying Case
C781	Soft Carrying Case
C799	Soft Field Case



Fluke. Keeping your world up and running.®

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