

FLUKE®

Process Tools

for industrial instrumentation and electrical technicians

2016 Selection Guide

Loop Calibrators

Pressure Calibrators

**Temperature
Calibrators**

**Multifunction
Process Calibrators**

**Documenting
Process Calibrators**

Calibration Software

Intrinsically Safe Calibrators



Precision loop calibrators



Fluke 709/709H

www.fluke.com/709H



Best-in-class accuracy, 0.01 % of reading

Fluke 709/709H Precision Current Loop Calibrators

- HART Communication (709H only) communicate with and test HART smart instruments
- Compact rugged design
- Intuitive user interface with quick-set knob for fast setup, easy to use
- 24 V dc loop power with mA measure mode
- Resolution of 1 μ A on mA ranges
- Built in selectable 250 Ω resistor for HART communications
- Simple two wire connection for all measurements
- Valve test (source and simulate defined mA values with % keys)
- Upload logged mA measurements and HART device data using the 709H with optional 709H/TRACK software

HART communication

The Fluke 709H offers a built-in HART modem for communication capability to perform the following commands working with HART devices:

- Read and modify message
- Read and modify tag descriptor
- Read sensor PV information
- Read PV output information
- Read long tag and calibration date
- Write PV ranges (upper and lower)
- Write PV units
- Enter/exit fixed current mode
- Set zero offset
- Trim DAC zero (4 mA and 20 mA)
- Trim DAC gain (mA output 20 mA)
- The Fluke 709H also offers ability to store up to twenty HART device configuration files for uploading via 709H/TRACK software. Configurations can be stored as .csv or .txt files. This allows the end user to document plant HART devices easily

Specifications for Fluke 709 and 709H

Functions	mA source, mA simulate, mA measure, mA measure/loop power, and volts measure
Ranges	mA (0 to 24 mA) and volts (0 to 30 V dc)
Resolution	1 μ A on mA ranges and 1 mV on voltage range
Accuracy	0.01 % \pm 2 counts all ranges (@ 23 $^{\circ}$ \pm 5 $^{\circ}$ C)
Operating temperature range	-10 $^{\circ}$ C to 55 $^{\circ}$ C (14 $^{\circ}$ F to 131 $^{\circ}$ F)
Humidity range	10 % to 95 % non-condensing
Stability	20 ppm of F.S. / $^{\circ}$ C from -10 $^{\circ}$ C to 18 $^{\circ}$ C and 28 $^{\circ}$ C to 55 $^{\circ}$ C
Display	128 x 64 pixels, LCD Graphic w/backlight, .34 in high digits
Power	6 AAA alkaline
Battery life	\geq 40 hours continuous use (measure mode using alkaline)
Loop compliance voltage	24 V dc @ 20 mA
Over-voltage protection	240 V ac
Overload current protection	28 mA dc
EMC	EN61326 Annex A (Portable Instruments)
Dimensions (LxWxD)	15 cm x 9 cm x 3 cm (6 in x 3.6 in x 1.3 in)
Weight	0.3 kg (9.5 oz)
Included accessories	Traceable calibration certificate with data, batteries, test leads, and manual
Warranty	Three-year

ProcessMeter™ test tools



789



787



(789 only)



(789, 787 has CAT III 1000 V only)



Multimeter and Loop Calibrator—all in one

Fluke 789 ProcessMeter™ Test Tool

The Fluke 789 has a display that's twice as large as the 787 and adds a 24 V loop power supply that the 787 does not include.

- Unique, new wireless data logging capabilities with Fluke Connect™
- 24 V loop power supply
- 20 mA drive into 1200 Ω
- 0 % to 100 % mA Span Check buttons to toggle from 4 mA to 20 mA
- Infrared I/O serial port compatible with FlukeView® Software
- PLUS all the proven 787 features below

Fluke 787 ProcessMeter™ Test Tool

- Simultaneous mA and % of scale readout on mA output
- 25 % manual step plus auto step and auto ramp on mA output
- CAT III, 1000 V safety rated DMM
- Measure volts, amps, resistance, and frequency

www.fluke.com/processmeter

Specifications for Fluke 789 and 787 (18 °C to 28 °C, 1 year)			
Measurement function	Best accuracy range and resolution	[% of reading + count]	
V dc	400.0 mV, 4.000 V, 40.00 V	0.1 % + 1	
V ac (true-rms) to 500 Hz	400.0 mV, 4.000 V, 40.00 V, 400.0 V, 1000 V	0.7 % + 2	
mA dc	30.000 mA	.05 % + 2	
A dc	1.000 A (0.440 A continuous)	0.2 % + 2	
A ac	1.000 A (0.440 A continuous)	1 % + 2	
Resistance	400.0 Ω, 4.000 k, 40.00 k	0.2 % + 1	
Frequency	199.99 Hz, 1999.9 Hz, 19.999 kHz	.005 % +1 (0.5 Hz to 20 kHz)	
Diode test	789: 2.000 V (shows diode voltage drop)	2 % + 1	
	787: 2.400 V (shows diode voltage drop)		
Continuity	Beeps for resistance < approx. 100 Ω		
Output function	Range and resolution	Drive capability	Accuracy (% of span)
DC current output	0.000 mA to 20.000 mA or 4.000 mA to 20.000 mA (selectable at power-up) Over-range to 24.000 mA	789: 24 V compliance or, 1200 Ω @ 20 mA	.05 %
		787: 12 V compliance or, 500 Ω @ 24 mA	
DC current simulate (ext. 24 V loop supply)	0.000 mA, to 20.000 mA or 4.000 mA, to 20.000 mA, (selectable at power-up) Over-range to 24.000 mA	789: 15 V to 48 V	.05 %
		787: 15 V to 30 V	
24 V loop supply	789: minimum 24 V	≥ 24 V @ 24 mA, 1200 Ω (789 only)	
	787: not available		

Loop calibrators, milliamp process clamp meters



Fluke 705

Fluke 707

Fluke 715

Fluke 773

www.fluke.com/loop



Fluke 705, 707 and 715 mA Loop Calibrators

- Simultaneous mA and % readout for quick, easy, readings
- Push button 25 % steps for fast, linearity checks
- Output ramp and step modes
- 24 V internal loop supply

Fluke 707 mA Loop Calibrators adds

- Quick click front panel selector for fast, one-hand operation

Fluke 715 Volt/mA Calibrator adds

- Source voltage to 200 mV or 20 V
- Measure loop current with 0.010 % accuracy and 0.001 mA resolution

Fluke 771 Milliamp Process Clamp Meter

- Measure mA signals for PLC and control system analog I/O
- Measure 4–20 mA output signals from transmitters without breaking the loop
- Resolution and sensitivity to 0.01 mA, accuracy 0.2 %
- Dual backlit display with both mA measurement and percent of span
- Measurement spotlight illuminates hard to see wires in dark enclosures
- Detachable clamp with one meter cable

Fluke 772 Milliamp Process Clamp Meter adds

- mA source, simulate and 24 V loop power
- Test mA input devices and troubleshoot 4–20 mA loops

Fluke 773 Milliamp Process Clamp Meter adds

- DC voltage source and measure
- Test voltage input devices and measure 24 V loop power supplies
- Advanced troubleshooting functions

Model	Loop Calibrator			Process Milliamp Clamp Meter		
	705	707/707Ex	715	771	772	773
Measure						
V dc	28 V	28 V	25 V			30 V
mA dc	24 mA	24 mA	24 mA	99.9 mA	99.9 mA	99.9 mA
Source/Simulate						
V dc			20 V			10 V
mA dc/% scale	24 mA	24 mA	24 mA	24 mA	24 mA	24 mA
mA source; auto step, auto ramp	•	•	•		•	•
Record						
Hold				•	•	•
Features						
24 V loop supply	•	•	•		•	•
Intrinsically safe (ATEX)		707Ex				
Traceable certification	•	•	•			
Accessories ¹	C	C	A/B			

¹Accessories: A. Compatible with LockPak B. Compatible with ToolPak C. Accepts hanging straps from ToolPak

For full specifications, more product highlights and ordering information visit www.fluke.com/loopcalibrators

Pressure calibrators



717

718

719 Pro



www.fluke.com/pressure

Fluke 719 and 719PRO Electric Pressure Calibrators

- Electric pump enables one-handed pressure pumping and makes pressure calibration quicker and easier
- Best in class 0.025 % pressure measurement accuracy
- Programmable pump limit settings
- **719:** Two ranges, 30 psi and 100 psi
- **719PRO:** Three ranges 30, 150 and **300** psi
- **719PRO:** Precision temperature measurement with optional 720RTD Probe

Fluke 718 Pressure Calibrators

- 1, 30, 100 and 300 psi ranges available
- Pump to 300 psi, 20 bar with internal pump (718-300G)
- 718-1G has special low volume pump, high measurement resolution for low pressure

Fluke 717 Pressure Calibrators

- Measure up to 10,000 psi/690 bar sensor
- Compatible with non-corrosive gases and liquids on 500 psi and higher ranges

718 and 719

- Precision vernier for fine pressure adjustment
- Variable release rate bleed valve for controlled pressure release

717, 718 and 719 common features

- Pressure switch test makes a difficult task easy, captures set, reset and deadband values of a pressure switch
- 717, 718 and 719 measure pressure to 0.025 % of full scale
- Measure mA with 0.015 % accuracy, while sourcing 24 V loop power

Models	Range	Resolution	Comment
717-1G	+/- 1 psi, 27.5 inH ₂ O, (-7 to +7 kPa)	+0.0001 psi, 0.0001 kPa, 0.001 inH ₂ O	Dry air only. Fluke 718 includes on board pump.
717-15G	-12 to 15 psi, -83 to 103 kPa	0.001 psi, 0.01 kPa	Dry air only.
717-30G, 718-30G, 719-30G, 719Pro-30G	-12 to + 30 psi, (-83 to 207 kPa)	0.001 psi, 0.01 kPa	Dry air only. Fluke 718 and Fluke 719 include on board pump.
717-100G	-12 to + 100 psi, (-83 to 690 kPa)	0.01 psi, 0.01 kPa	Dry air only. Fluke 718 includes on board pump. 717-100G compatible with non-corrosive gases and fluids.
718-100G	-12 to 150 psi	0.01 psi, 0.01 kPa	Fluke 719Pro dry air only and includes on board pump.
717-300G, 718-300G, 719-100G, 719Pro 300G	-12 to +300 psi, (-83 to +2070 kPa)	0.01 psi, 0.1 kPa	Fluke 718, 719 and 719Pro dry air only include on board pump. 717 compatible with non-corrosive gases and fluids.
717-500G	0-500 psi, 0-3450 kPa	0.01 psi, 0.1 kPa	Compatible with non-corrosive gases and fluids
717-1000G	0-1000 psi, 0-6900 kPa	0.01 psi, 0.1 kPa	Compatible with non-corrosive gases and fluids
717-1500G	0-1500 psi, 0-10342 kPa	0.1 psi, 1 kPa	Compatible with non-corrosive gases and fluids
717-3000G	0-3000 psi, 0-20700 kPa	0.1 psi, 1 kPa	Compatible with non-corrosive gases and fluids
717-5000G	0-5000 psi, 0-34500 kPa	0.1 psi, 1 kPa	Compatible with non-corrosive gases and fluids
717-10000G	0-10000 psi, 0-69000 kPa	1 psi, 1 kPa	Compatible with non-corrosive gases and fluids
Pressure accuracy	0.035 % of range, one year. 0.025 % for six months, 717 and 718-1G: 0.05 % one year, 718 and 717-300G 0.035 % six months, 0.05 % one year		
mA measurement	0-24 mA range	0.001 mA resolution	Accuracy: ± 0.015 % + 1 count
Loop power	24 V dc		Accuracy: ± 10 %

Precision pressure test gauges



Fluke 700G

www.fluke.com/700G

Intrinsically safe, pressure gauge calibrator for fast and accurate calibration test results.

Fluke 700G Series Precision Pressure Gauge

- Precision pressure measurement from ± 10 inH₂O/20 mbar to 10,000 psi/690 bar
- Absolute pressure measurement ranges 15, 30, 100, 300 psia
- Accuracy to 0.05 % of full scale
- Reference class gauge accuracies to 0.04 % of reading
- Easy to use, rugged construction for reliable performance
- CSA; Class 1, Div 2, Groups A-D rating
- ATEX rating: II 3 G Ex nA IIB T6
- Combine with the 700PTPK2 or 700HTPK2 pump kits for a complete pressure testing solution for up to 600 psi (40 bar) with the PTP-1 pneumatic pump and up to 10,000 psi (690 bar) with the HTP-2 hydraulic pump
- Log up to 8,493 pressure measurements to memory (requires 700G/TRACK software)
- Three-year warranty

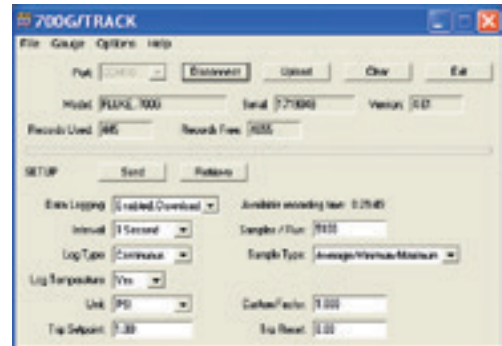
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**Fluke-700PTPK2
Pneumatic Test Kit**



**Fluke-700HTPK2
Hydraulic Test Kit**



**700G/TRACK
Logging Software**

Model	Range	Resolution	Accuracy
Fluke-700G01	-10 to +10 inH ₂ O	0.001 inH ₂ O	Positive pressure ± 0.1 % of range, Vacuum ± 0.1 % of range
Fluke-700G02	-1 psi to +1 psi	0.0001 psi	
Fluke-700G04	-14 psi to 15 psi	0.001 psi	
Fluke-700G05	-14 psi to 30 psi	0.001 psi	
Fluke-700G06	-12 psi to 100 psi	0.01 psi	
Fluke-700G27	-12 psi to 300 psi	0.01 psi	
Fluke-700G07	-12 psi to 500 psi	0.01 psi	Positive pressure ± 0.05 % FS
Fluke-700G08	-14 psi to 1000 psi	0.1 psi	Vacuum ± 0.1 % FS
Fluke-700G10	-14 to 2000 psi	0.1 psi	
Fluke-700G29	-14 psi to 3000 psi	0.1 psi	
Fluke-700G30	-14 psi to 5000 psi	0.1 psi	
Fluke-700G31	-14 psi to 10000 psi	1 psi	
Fluke-700GA4	0 psia to 15 psia	0.001 psi	
Fluke-700GA5	0 psia to 30 psia	0.001 psi	± 0.05 % of range
Fluke-700GA6	0 psia to 100 psia	0.01 psi	
Fluke-700GA27	0 psia to 300 psia	0.01 psi	
Fluke-700RG05	-14 psi to +30 psi	0.001 psi	Positive pressure, ± 0.04 % of reading +.01 % of range, Vacuum ± 0.05 % of range
Fluke-700RG06	-12 psi to 100 psi	0.001 psi	
Fluke-700RG07	-12 psi to 500 psi	0.01 psi	Positive pressure, ± 0.04 % of reading
Fluke-700RG08	-14 psi to 1000 psi	0.01 psi	+ .01 % of range, Vacuum
Fluke-700RG29	-14 psi to 3000 psi	0.1 psi	± 0.1 % of range
Fluke-700RG30	-14 psi to 5000 psi	0.1 psi	
Fluke-700RG31	-14 psi to 10000 psi	1 psi	
700R Ranges: Temperature Compensation 0 e°C to 50 °C (32 °F to 122 °F) to rated accuracy. For temperatures from -10 °C to 0 °C and 50 °C to 55 °C, add .005 % FS/°C			
Media compatibility			
<ul style="list-style-type: none"> • 10 inH₂O, 1, 15, 30 psi: any clean dry non-corrosive gas • 100 psi and above: any liquids or gases compatible with 316 stainless steel. 			

Pressure calibrator



Fluke 721



Fluke 721Ex



Fluke 721 and 721Ex Precision Pressure Calibrators

- Ideal tool for gas custody transfer applications
- Intrinsically Safe (721Ex version only)—IECEX and Atex Ex ia IIB T3 Gb (Zone 1)
- Take simultaneous static and differential pressure measurements
- Best in class accuracy of 0.025 %
- Pt100 RTD input for precision temperature measurement (probe optional)
- Measures 4 to 20 mA signals and provides 24 V loop power (721 models only)
- Measure up to 30 V dc to check 24 V loop power supplies (721 models only)
- Extend pressure measurement range with 750P Series Pressure Modules (50 ranges) (721 models only)

Model	Ex available	Low pressure sensor			High pressure sensor		
		Range sensor 1	Resolution sensor 1	Accuracy sensor 1	Range sensor 2	Resolution sensor 2	Accuracy sensor 2
Fluke-721-1601	Yes	-14 psi to +16 psi	0.001 psi,	0.025 % of full scale	-12 psi to +100 psi	0.01 psi	0.025 % of full scale
Fluke-721-1603					-12 psi to +300 psi		
Fluke-721-1605					-12 psi to +500 psi		
Fluke-721-1610					0 psi to +1000 psi	0.1 psi	
Fluke-721-1615					0 psi to +1500 psi		
Fluke-721-1630					0 psi to +3000 psi		
Fluke-721-1650		0 psi to +5000 psi			0.035 % of full scale		
Fluke-721-3601		-14 psi to +36 psi			-12 to +100 psi	0.01 psi	0.025 % of full scale
Fluke-721-3603					-12 psi to +300 psi		
Fluke-721-3605					-12 psi to +500 psi		
Fluke-721-3610					0 psi to +1000 psi	0.1 psi	
Fluke-721-3615					0 psi to +1500 psi		
Fluke-721-3630					0 psi to +3000 psi		
Fluke-721-3650		0 psi to +5000 psi			0.035 % of full scale		

Each of the above models also available with an Ex rating
Media compatibility: liquids or gases compatible with 316 stainless steel

3130 Portable Pressure Calibrator

Measure and generate pressures from vacuum to 300 psi.

- Internal pump can generate vacuum to -12 psi or pressure to 300 psi
- Supply pressure connection allowing the use of external gas supply up to 300 psi
- Measure or generate 4 to 20 mA



3130

Parameter	Range	Total uncertainty 1-year	Comment
Pressure	-80 kPa to 2 MPa (-12 to 300 psi, -0.8 to 20 bar)	0.025 % of reading ± 0.01 % FS	Compatible with 750P modules
mA	0 to 20 mA	0.015 % of reading ± 0.002 mA	4-20 mA and loop power
Volts	0 to 30.000 V dc	0.015 % of reading ± 0.002 V	Switch testing

Deadweight testers



P3000



P3100/P3200

www.flukecal.com/benchDWT

Model	Media	Number of ranges	Max range	Standard accuracy (%Rdg)	Improved accuracy (% Rdg)
P3011	Gas	Single	-30 inHg (-100 kPa)	0.015	0.008
P3012	Gas	Single	400 inH2O (100 kPa)	0.015	0.008
P3013	Gas	Single	800 inH2O (200 kPa)	0.015	0.008
P3014	Gas	Single	150 psi (1 MPa)	0.015	0.008
P3015	Gas	Single	500 psi (3.5 MPa)	0.015	0.008
P3022	Gas	Dual	400 inH2O (100 kPa)	0.015	0.008
P3023	Gas	Dual	800 inH2O (200 kPa)	0.015	0.008
P3025	Gas*	Dual	500 psi (3.5 MPa)	0.015	0.008
P3031	Gas*	Single	1000 psi (7 MPa)	0.015	0.008
P3032	Gas	Single	2000 psi (14 MPa)	0.015	0.008
P3111	Oil	Single	500 psi (3.5 MPa)	0.015	0.008
P3112	Oil	Single	2000 psi (14 MPa)	0.015	0.008
P3113	Oil	Single	5000 psi (35 MPa)	0.015	0.008
P3114	Oil	Single	10000 psi (70 MPa)	0.015	0.008
P3115	Oil	Single	16000 psi (110 MPa)	0.015	0.008
P3116	Oil	Single	20000 psi (140 MPa)	0.015	0.008
P3123	Oil	Dual	5000 psi (35 MPa)	0.015	0.008
P3124	Oil	Dual	10000 psi (70 MPa)	0.015	0.008
P3125	Oil	Dual	16000 psi (110 MPa)	0.015	0.008
P3211	Water	Single	500 psi (3.5 MPa)	0.015	0.008
P3213	Water	Single	5000 psi (35 MPa)	0.015	0.008
P3214	Water	Single	10000 psi (70 MPa)	0.015	0.008
P3223	Water	Dual	5000 psi (35 MPa)	0.015	0.008
P3224	Water	Dual	10000 psi (70 MPa)	0.015	0.008
P3830	Oil	Single	30000 psi (200 MPa)	0.02	0.015
P3840	Oil	Single	40000 psi (260 MPa)	0.02	0.015
P3860	Oil	Single	60000 psi (400 MPa)	0.02	0.015

*(Liquid lubricated)

Highly accurate, robust and flexible pressure measurement standards capable of calibrating a wide range of instruments.

P3000 Pneumatic Deadweight Testers

- Pressure ranges from vacuum through 2,000 psi (140 bar)
- Accuracy better than 0.015 % of reading. (0.008 % optional)
- Gas operated with optional hand pumps
- Dual vacuum/pressure models available
- Psi, bar, kgf/cm², kPa and MPa ranges available
- Piston/cylinder design provides stability and repeatability

P3100 Hydraulic Deadweight Testers

- Pressure ranges to 20,000 psi (1400 bar)
- 0.015 % of reading accuracy standard (0.008 % optional)
- Single or dual piston formats
- Built-in hand pumps standard
- Mounted spirit level with adjustable feet
- Units can be trimmed to local gravity FOC

P3200 Water Deadweight Testers

- Water operation for improved media compatibility
- Pressure ranges to 10,000 psi (700 bar)
- 0.015 % of reading accuracy standard (0.008 % optional)
- Single or dual piston formats
- Built-in hand pumps standard
- Mounted spirit level with adjustable feet
- Units can be trimmed to local gravity FOC

Benchtop pressure calibrators



P5510



P5514



P5515



6532

www.flukecal.com/comparisonpumps
www.flukecal.com/edwt

Models	Media	Range (psig)	Range (MPa)	Uncertainty
6531-7M	oil or water	100 to 1,000	0.7 to 7	± 0.02 % rdg
6531-14M	oil or water	200 to 2,000	1.4 to 14	± 0.02 % rdg
6531-20M	oil or water	300 to 3,000	2 to 20	± 0.02 % rdg
6531-40M	oil or water	600 to 6,000	4 to 40	± 0.02 % rdg
6531-70M	oil or water	1,000 to 10,000	7 to 70	± 0.02 % rdg
6531-140M	oil or water	2,000 to 20,000	14 to 140	± 0.02 % rdg
6531-200M	oil or water	3,000 to 30,000	20 to 200	± 0.02 % rdg
6532-70M	oil or water	100 to 10,000	0.7 to 70	± 0.02 % rdg
6532-140M	oil or water	200 to 20,000	1.4 to 140	± 0.02 % rdg
6532-200M	oil or water	300 to 30,000	2 to 200	± 0.02 % rdg
P5510-2M	gas	vacuum to 300	vacuum to 2	**
P5513-20M	gas	vacuum to 3,000	vacuum to 20	**
P5514-70M	oil or water	0 to 10000	0 to 70	**
P5514-70M-EP	oil or water	0 to 10000	0 to 70	**
P5515-140M	oil or water	0 to 20000	0 to 140	**
P5515-140M-EP	oil or water	0 to 20000	0 to 140	**
P3800C	oil	0 to 60000	0 to 400	**

**reference pressure gauge not included-compatible with Fluke 700G (p6)

Precise generation and control for testing pressure measuring instruments against master devices.

P5510 Gas Comparison Test Pump

- Dual pressure/vacuum capability
- Bench mount design
- Built-in hand pump as pressure/vacuum source
- High quality needle valve for fine control
- Test port adapters that require no PTFE tape or wrenches

P5513 Gas Comparison Test Pump

- High pressure pneumatic operation
- Screw press for fine pressure adjustments
- High quality needle valves for fine control
- Test port adapters which require no PTFE tape or wrenches
- Sturdy carrying case with lid

P5514 Hydraulic Comparison Test Pump

- Generates pressures to 10,000 psi (700 bar)
- Bench mounted design
- Operational with a wide range of fluids
- Screw press for fine pressure adjustments

P5515 Hydraulic Comparison Test Pump

- Generates pressures to 20,000 psi (1400 bar)
- Operational with a wide range of fluids
- Built-in hand pump for system priming and large volume applications
- High quality screw press for fine pressure control
- Acrylic reservoir for visibility of fluid level and quality

6531 Electronic Deadweight Tester

- A digital alternative to the traditional deadweight tester
- 0.02 % of reading from 10 % to 100 % of instrument range (10:1 turndown)
- Ranges from 1000 psi (7 MPa) to 30,000 psi (200 MPa)
- Integrated hydraulic pressure generation and control
- Compatible with water and a wide range of oils and other fluids
- Onboard test routines, data storage, and other advanced features

6532 Extended Range Electronic Deadweight Tester

- All the features of model 6531 with extended pressure range for maximum workload coverage
- 0.0 % of reading from 1 % to 100 % of instrument range (100:1 turndown)
- Models with full scale ranges from 10,000 psi (70 MPa) to 30,000 psi (200 MPa)

Precision temperature/ pressure process calibrator

FLUKE®



7526A

Versatility, precision and value, combined into a single benchtop process calibration tool.

7526A Precision Process Calibrator

The Fluke Calibration 7526A Precision Process Calibrator offers the best balance of economy and accuracy for benchtop calibration of temperature and pressure process instrumentation.

Easily calibrate RTD and thermocouple readouts, pressure gauges, temperature transmitters, digital process simulators, data loggers, multimeters and more.

- Sources and measures dc voltage, current, resistance, RTDs and thermocouples
- Precision pressure measurement using Fluke 750P or 525A-P series pressure modules
- Includes 24 V dc transmitter loop power supply
- Measures 4–20 mA loop current
- Includes automated switch-test function
- Accepts ITS-90 coefficients for accurate SPRT measurements
- Compatible with MET/CAL® Calibration Software

www.flukecal.com/7526A



DC Voltage, Output			
Range	Absolute uncertainty, ± (ppm of output + μV), 1-yr		Resolution
0 to 100 mV	30	3	1 μV
0 to 1 V	30	10	10 μV
0 to 10 V	30	100	100 μV
0 to 100 V	30	1 mV	1 mV

DC Voltage, Isolated Input			
Range	Absolute uncertainty, ± (ppm of reading + mV), 1-yr		Resolution
0 to 10 V	50	0.2	100 μV
10 V to 100 V	50	2.0	1 mV

DC current, output			
Range ^[1]	Absolute uncertainty, ± (ppm of reading + μA), 1-yr		Resolution
0 to 100 mA	50	1	1 μA

^[1]For line voltages less than 95 V, ±100 ppm of reading

DC current, isolated input			
Range	Absolute uncertainty, ± (ppm of reading + mV), 1-yr		Resolution
0 mA to 50 mA	100	1	0.1 μA

Resistance, output			
Range	Absolute uncertainty, tcal ± 5 °C, ± Ω, 1-yr	Resolution	Nominal current
5 Ω to 400 Ω	0.015	0.001 Ω	1 to 3 mA
5 Ω to 4 kΩ	0.3	0.01 Ω	100 μA to 1 mA

Resistance, Input			
Range	Absolute uncertainty, ± (ppm of reading + Ω), 1-yr		Resolution
0 Ω to 400 Ω	20	0.004	0.001 Ω
0 Ω to 4 kΩ	20	0.04	0.01 Ω

Sample thermocouple, input/output (does not include all available TC types) ^[1]			
TC type	Min	Max	Absolute uncertainty, tcal ± 5 °C, ± (°C), 1-yr
K	-100 °C	800 °C	0.1

^[1]See extended specifications for all TC types (B,C,E,J,K,L,N,R,S,T,U,XK,BP)

Sample RTD, output (does not include all available RTD types) ^[1]			
RTD Type	Temperature Range (°C)		Absolute uncertainty, tcal ± 5 °C, ± (°C), 1-yr
	Min	Max	
Pt 385, 100 Ω	-200	630	0.05

^[1]See extended specifications for all RTD types: Pt-100 (385, 3926, 3916), Pt-200, Pt-500, Pt-1000, Ni-120, Cu-427, SPRT

Sample RTD, Input (does not include all available RTD types) ^[1]			
RTD Type	Min	Max	Absolute uncertainty, tcal ± 5 °C, ± (°C), 1-yr
	Pt 385, 100 Ω	-80 °C	
	100 °C	300 °C	0.024

^[1]See extended specifications for all RTD types: Pt-100 (385, 3926, 3916), Pt-200, Pt-500, Pt-1000, Ni-120, Cu-427, SPRT

Field temperature sources



9142



6102

9142/9143/9144 Field Metrology Wells

High performance for industrial process environment

- Fast, lightweight, and portable
- Three models covering a temperature range from -25 °C to 660 °C
- Stability to ± 0.01 °C
- Built-in two-channel readout for PRT, RTD, thermocouple, 4–20 mA current
- Optional built-in reference thermometer readout

6102/7102/7103 Micro-Baths

World's smallest portable calibration baths

- Calibrate a variety of probe diameters - no sleeves required
- Three models covering a temperature range from -30 °C to 200 °C
- Stability to ± 0.015 °C

www.flukecal.com/914X
www.flukecal.com/micro-baths

Pair these temperature calibrators with the **75X Documenting Process Calibrators** for a field temperature documenting solution.

	Field Metrology Well			Micro-Bath		
	9142	9143	9144	6102	7102	7103
Range	-25 °C to 150 °C (-13 °F to 302 °F)	33 °C to 350 °C (91 °F to 662 °F)	50 °C to 660 °C (122 °F to 1220 °F)	35 °C to 200 °C (95 °F to 392 °F)	-5 °C to 125 °C (23 °F to 257 °F)	-30 °C to 125 °C (-22 °F to 257 °F)
Display accuracy	± 0.2 °C entire range	± 0.2 °C entire range	± 0.5 °C at 660 °C	± 0.25 °C	± 0.25 °C	± 0.25 °C
Stability	± 0.01 °C entire range	± 0.03 °C at 350 °C	± 0.05 °C at 660 °C	± 0.03 °C at 200 °C	± 0.015 °C at -5 °C	± 0.03 °C at -25 °C
Heating time	25 min: -25 °C to 150 °C	5 min: 33 °C to 350 °C	15 min: 50 °C to 660 °C	40 min: 25 °C to 200 °C	30 min: 25 °C to 100 °C	35 min: 25 °C to 100 °C
Cooling time	15 min: 23 °C to -25 °C	32 min: 350 °C to 33 °C	35 min: 660 °C to 50 °C	35 min: 200 °C to 100 °C	30 min: 25 °C to 0 °C	45 min: 25 °C to -25 °C
Immersion depth	150 mm (5.9 in)	150 mm (5.9 in)	150 mm (5.9 in)	140 mm (5.5 in)	140 mm (5.5 in)	140 mm (5.5 in)
Size (H x W x D)	290 x 185 x 295 mm (11.4 x 7.3 x 11.6 in)	290 x 185 x 295 mm (11.4 x 7.3 x 11.6 in)	290 x 185 x 295 mm (11.4 x 7.3 x 11.6 in)	140 x 260 x 200 mm (5.5 x 10.38 x 8 in)	180 x 310 x 240 mm (7.2 x 12 x 9.5 in)	230 x 340 x 260 mm (9 x 13.2 x 10.5 in)
Weight	8.16 kg (18 lb)	7.3 kg (16 lb)	7.7 kg (17 lb)	4.5 kg (10 lb)	6.8 kg (15 lb)	9.8 kg (22 lb)
Calibration included	NVLAP accredited	NVLAP accredited	NVLAP accredited	Traceable certification	Traceable certification	Traceable certification

Temperature calibrators



712B

714B

724

www.fluke.com/tempcal



712B RTD Calibrator

- Complete RTD calibration tool
- Measure temperature like a thermometer with RTD sensor
- Simulate RTD outputs
- Rosemount pulsed RTD transmitter compatible
- Fourteen types of RTDs supported
- Auto step and auto ramp output function
- Measure mA while sourcing temperature

714B Thermocouple Calibrator

- Full-featured thermocouple calibration tool
- Measure temperature like a thermometer with a TC sensor
- Simulate TC outputs
- Seventeen types of thermocouples supported
- Auto step and auto ramp output function
- Calibrate linear TC transmitter with mV source function
- Measure mA while sourcing temperature

724 Temperature Calibrator

- Expertly test all the temperature sensors and transmitters in your plant
- Source and measure TCs and RTDs
- Easy-to-read measure/source back lit screens let you view input and output simultaneously
- Perform fast linearity tests with auto step and auto ramp features
- Power transmitters with internal loop supply
- Store frequently-used test setups for later use

Model	Temperature Calibrators		
	712B	714B	724
Measure			
V dc		-10 mV to 75 mV	30 V
Resistance	4000 Ω		3200 Ω
A dc	24 mA	24 mA	24 mA
Temperature: RTDs	14 types		7 types
Temperature: TCs		17 types	12 types
Source/Simulate			
V dc			10 V
Resistance	4000 Ω		3200 Ω
Temperature: RTDs	14 types		7 types
Temperature: TCs		17 types	12 types
Features			
24 V loop supply			•
Traceable certification	•	•	•
Accessories ¹	A/B	A/B	A/B

¹Accessories: A. Compatible with LockPak B. Compatible with ToolPak

Multifunction process calibrators



725

726

www.fluke.com/mfc

Model	Multifunction Process Calibrator	
	725/725Ex	726
Measure		
V dc	30 V	30 V
Resistance	3200 Ω	4000 Ω
A dc	24 mA	24 mA
Frequency	10 kHz	15 kHz
Pressure	50 ranges ¹	50 ranges ¹
Temperature: RTDs	7 types	8 types
Temperature: TCs	12 types	13 types
Source/Simulate		
V dc	10 V	20 V
Resistance	3200 Ω	4000 Ω
mA dc/% scale	24 mA	24 mA
mA source; auto step, auto ramp	•	•
Frequency totalizer		15 kHz
Temperature: RTDs	7 types	8 types
Temperature: TCs	12 types	13 types
Record		
Calibration results		Manual
Remote operation	725	•
Features		
24 V loop supply	•	•
Traceable certification	•	•
Accessories ²	A/B	A/B

¹Fluke 750 Pressure Modules required ²Accessories: A. Compatible with LockPak B. Compatible with ToolPak

Fluke 725 and 726 Multifunction Process Calibrator

The Fluke 725 and 726 Multifunction Calibrators are versatile, easy-to-use field calibrators. Use them to test and calibrate almost anything.

- Dual measure/source backlit screens let you view input and output simultaneously
- Perform fast linearity tests with auto-step and ramp
- Power transmitters with internal loop supply
- Store frequently-used test setups for later use
- 725EX intrinsically safe version available
- Measure and source frequency to test sensors and flow transmitters
- Source/simulate mA, TCs and RTDs to calibrate temperature transmitters
- Source and measure pressure using any of the Fluke pressure modules for testing transmitters and gauges
- Source mA with pressure measurement to test valves and I/Ps

Fluke 726 Precision Multifunction Process Calibrator

The Fluke 726 Precision Multifunction Process Calibrator has all the features of the 725 plus twice the accuracy for unsurpassed calibration power.

- Precise measurement and calibration source performance, accuracies of 0.01 %
- Voltage input protection design for improved reliability and reduced cost of ownership
- Transmitter error % calculation, interpret calibration results without a calculator
- Memory storage for up to eight calibration results, return stored calibration data from the field
- Frequency totalizer and frequency pulse train source mode for enhanced flowmeter testing
- HART mode inserts 250 ohm resistor in mA measure with loop power and source
- Integrated pressure switch test captures the set, reset and deadband of a switch
- Custom RTD curves, add calibration constants for certified RTD probes for enhanced temperature measurement

Documenting process calibrators

FLUKE®



753

754

HART
COMMUNICATION PROTOCOL



www.fluke.com/dpc

Fluke 750 Series Documenting Process Calibrators

If you like the Fluke 740 Series Calibrators you will love these new calibrators. The nearly identical user interface and improved display makes these new calibrators a winner for those familiar with the 740 series family.

Improvements include a new brighter and bigger display, HART connectivity through the mA terminals, improved test lead set, Li-ion battery, improved accuracy and more.

Added bonus, the 750 series DPCs include the innovative new C799 Field Softcase.

Fluke 753 Documenting Process Calibrator

The 753 Documenting Process Calibrator automates calibration procedures and captures your data. Use the PC interface for downloading procedures, lists, and instructions to the 753 and for uploading data for printing, archiving and analysis.



Combine the 750 Series calibrators with DPCTrack2 software for a complete paperless calibration solution.

Features of the Fluke 753 and 754:

- Measure volts, mA, RTDs, thermocouples, frequency, and ohms to test sensors, transmitters and other instruments
- Source/simulate volts, mA, thermocouples, RTDs, frequency, ohms, and pressure to calibrate transmitters
- Power transmitters during test using loop supply with simultaneous mA measurement
- Measure/source pressure using any of 50 Fluke pressure modules
- Measure and source simultaneously with one compact, rugged, reliable tool
- Create and run automated as-found/as-left procedures to satisfy quality programs or regulations. Record and document results
- Use many features like autostep, custom units, user entered values during test, one-point and two-point switch testing, square root DP flow testing, programmable measurement delay etc
- Handling of fast pulsed RTD transmitters and PLCs, with 1 ms response time
- English, French, German, Italian, Spanish, Brazilian Portuguese, Simplified Chinese, Korean and Russian languages
- Three-year warranty

Fluke 754 Documenting Process Calibrator

The 754 includes integrated HART communication capability. This rugged, reliable tool is ideal for calibrating, maintaining, and troubleshooting HART and other instrumentation. Additional 754 features:

- Monitor, control and calibrate HART instrumentation
- Interrogate HART devices to determine type, manufacturer, model and tag-ID
- Read HART PV, smart transmitter digital output
- Make field adjustments to ranging, damping and more
- Change/assign the HART transmitter tag
- Re-configure HART temperature sensor (e.g., TC to RTD)
- Perform HART sensor trim and output trim
- Perform HART loop test
- Control selected Fluke Calibration Metrology Wells

The 754 supports these classes of HART instructions:

- Universal commands—such as “read manufacturer and device type,” “read primary variable (PV),” or “read current output and percent of span”
- Common practice commands—such as “read multiple variables,” “set damping time,” or “loop test”
- Device-specific commands on supported transmitters—functions unique to a particular field device, like “sensor trim”

For full specifications, more product highlights and ordering information on the 753 and 754 visit www.fluke.com/documentingprocesscalibrators

750 Series Pressure Calibration Modules



New

Fluke pressure modules

Now with more measurement ranges, improved accuracy and easy pressure connectivity.

Fluke offers 50 different pressure modules for use with its pressure, multifunction and documenting process calibrators. Fluke process calibrators in this guide marked with the “Pressure Enabled” symbol display readings from these Precision 750 Series Pressure Modules. Each pressure module includes traceable certification, metric adapter and instruction sheet. A full range of differential, gage, absolute, vacuum, dual and intrinsically safe pressure modules are available, from -15 psi (-103 kPa) to 10,000 psi (69 MPa).

www.fluke.com/pmod

Model	Parameter/Range	Hi Side Media ²	Lo Side Media ²	Reference Uncertainty ¹	Total Uncertainty 1-year (15-35 °C)	Total Uncertainty 1-year ¹	Total Uncertainty 6-month (15-35 °C)
Differential							
750P00	0 to 1 in H ₂ O (0 to 2.5 mBar)	Dry Air	Dry Air	± 0.15 %	± 0.3 %	± 0.35 %	± 0.25 %
750P31N	0 to 3 Inch H ₂ O (0 to 7.5 mBar)	Dry Air	Dry Air	± 0.15 %	± 0.3 %	± 0.35 %	± 0.25 %
750P51N	0 to 5 Inch H ₂ O (0 to 12.5 mBar)	Dry Air	Dry Air	± 0.15 %	± 0.3 %	± 0.35 %	± 0.25 %
750P01 ⁶	0 to 10 in H ₂ O (0 to 25 mBar)	Dry Air	Dry Air	± 0.1 %	± 0.2 %	± 0.3 %	± 0.15 %
750P02	0 to 1 psi (0 to 70 mBar)	Dry Air	Dry Air	± 0.050 %	± 0.1 %	± 0.15 %	± 0.075 %
750P22	0 to 1 psi (0 to 70 mBar)	316 SS	Dry Air	± 0.050 %	± 0.1 %	± 0.15 %	± 0.075 %
750P03	0 to 5 psi (0 to 350 mBar)	Dry Air	Dry Air	± 0.02 %	± 0.04 %	± 0.05 %	± 0.035 %
750P23	0 to 5 psi (0 to 350 mBar)	316 SS	Dry Air	± 0.02 %	± 0.04 %	± 0.05 %	± 0.035 %
750P04	0 to 15 psi (0 to 1 bar)	Dry Air	Dry Air	± 0.0175 %	± 0.035 %	± 0.045 %	± 0.03 %
750P24 ⁶	0 to 15 psi (0 to 1 bar)	316 SS	Dry Air	± 0.0175 %	± 0.035 %	± 0.045 %	± 0.03 %
Gage							
750P05 ⁶	0 to 30 psi (0 to 2 bar)	316 SS	N/A	± 0.0175 %	± 0.035 %	± 0.045 %	± 0.03 %
750P06 ⁶	0 to 100 psi (0 to 7 bar)	316 SS	N/A	± 0.0175 %	± 0.035 %	± 0.045 %	± 0.03 %
750P27 ⁶	0 to 300 psi (0 to 20 bar)	316 SS	N/A	± 0.0175 %	± 0.035 %	± 0.045 %	± 0.03 %
750P07	0 to 500 psi (0 to 35 bar)	316 SS	N/A	± 0.0175 %	± 0.035 %	± 0.045 %	± 0.03 %
750P08	0 to 1000 psi (0 to 70 bar)	316 SS	N/A	± 0.0175 %	± 0.035 %	± 0.045 %	± 0.03 %
750P09 ⁶	0 to 1500 psi (0 to 100 bar)	316 SS	N/A	± 0.0175 %	± 0.035 %	± 0.045 %	± 0.03 %
750P2000	0 to 2000 psi (0 to 140 bar)	316 SS	N/A	± 0.0175 %	± 0.035 %	± 0.045 %	± 0.03 %
High							
750P29 ⁶	0 to 3000 psi (0 to 200 bar)	316 SS	N/A	± 0.0175 %	± 0.035 %	± 0.045 %	± 0.03 %
750P30	0 to 5000 psi (0 to 340 bar)	316 SS	N/A	± 0.0175 %	± 0.035 %	± 0.045 %	± 0.03 %
750P31	0 to 10000 psi (0 to 700 bar)	316 SS	N/A	± 0.0175 %	± 0.035 %	± 0.045 %	± 0.03 %



Fluke Process Calibrators in this guide displaying this symbol are Pressure Enabled units and display readings from these Precision 750 Series Pressure Modules. Each pressure module includes traceable certification, metric NPT and M20 adapter and instruction sheet.

Model	Parameter/Range	Hi Side Media ²	Lo Side Media ²	Reference Uncertainty ⁴	Total Uncertainty 1-year (15 °C to 35 °C)	Total Uncertainty 1-year ¹	Total Uncertainty 6-month (15 °C to 35 °C)
Absolute							
750PA3	0 to 5 psia (0 to 350 mBar)	316 SS	N/A	± 0.03 %	± 0.06 %	± 0.07 %	± 0.05 %
750PA4 ⁵	0 to 15 psia (0 to 1 bar)	316 SS	N/A	± 0.03 %	± 0.06 %	± 0.07 %	± 0.05 %
750PA5	0 to 30 psia (0 to 2 bar)	316 SS	N/A	± 0.03 %	± 0.06 %	± 0.07 %	± 0.05 %
750PA6	0 to 100 psia (0 to 7 bar)	316 SS	N/A	± 0.03 %	± 0.06 %	± 0.07 %	± 0.05 %
750PA27	0 to 300 psia (0 to 20 bar)	316 SS	N/A	± 0.03 %	± 0.06 %	± 0.07 %	± 0.05 %
750PA7	0 to 500 psia (0 to 35 bar)	316 SS	N/A	± 0.03 %	± 0.06 %	± 0.07 %	± 0.05 %
750PA8	0 to 1000 psia (0 to 70 bar)	316 SS	N/A	± 0.03 %	± 0.06 %	± 0.07 %	± 0.05 %
750PA9	0 to 1500 psia (0 to 100 bar)	316 SS	N/A	± 0.03 %	± 0.06 %	± 0.07 %	± 0.05 %
Vacuum							
750PV3	-5 psi (-350 mBar)	316 SS	Dry Air	± 0.03%	± 0.06 %	± 0.07 %	± 0.05 %
750PV4	-15 psi (-1 bar)	316 SS	Dry Air	± 0.03%	± 0.06 %	± 0.07 %	± 0.05 %
Dual							
750PD2	-1 to 1 psi (-70 to 70 mBar)	316 SS	Dry Air	± 0.05%	± 0.1 %	± 0.15 %	± 0.075 %
750PD3	-5 to 5 psi (-350 to 350 mBar)	316 SS	Dry Air	± 0.03%	± 0.06 %	± 0.07 %	± 0.05 %
750PD10	-10 to 10 psi (-700 to 700 mBar)	316 SS	Dry Air	± 0.025%	± 0.05 %	± 0.07 %	± 0.04 %
750PD4	-15 to 15 psi (-1 to 1 bar)	316 SS	Dry Air	± 0.0175%	± 0.035 %	± 0.045 %	± 0.03 %
750PD5	-15 to 30 psi (-1 to 2 bar)	316 SS	N/A	± 0.0175%	± 0.035 %	± 0.045 %	± 0.03 %
750PD50	-15 to 50 psi (-1 to 3.5 bar)	316 SS	N/A	± 0.0175%	± 0.035 %	± 0.045 %	± 0.03 %
750PD6	-15 to 100 psi (-1 to 7 bar)	316 SS	N/A	± 0.0175%	± 0.035 %	± 0.045 %	± 0.03 %
750PD7	-15 to 200 psi (-1 to 14 bar)	316 SS	N/A	± 0.0175%	± 0.035 %	± 0.045 %	± 0.03 %
750PD27	-15 to 300 psi (-1 to 20 bar)	316 SS	N/A	± 0.0175%	± 0.035 %	± 0.045 %	± 0.03 %
Reference							
750R04 ⁵	0 to 15 psi (0 to 1 bar)	Dry Air	Dry Air	± 0.01 % of FS	± 0.02 % of FS	± 0.04 % of FS	± 0.015 % of FS
750R06 ⁵	0 to 100 psi (0 to 7 bar)	316 SS	N/A	± 0.01 % of FS	± 0.02 % of FS	± 0.04 % of FS	± 0.015 % of FS
750R27	0 to 300 psi (0 to 20 bar)	316 SS	N/A	± 0.01 % of FS	± 0.02 % of FS	± 0.04 % of FS	± 0.015 % of FS
750R07	0 to 500 psi (0 to 35 bar)	316 SS	N/A	± 0.01 % of FS	± 0.02 % of FS	± 0.04 % of FS	± 0.015 % of FS
750R08 ⁵	0 to 1000 psi (0 to 70 bar)	316 SS	N/A	± 0.01 % of FS	± 0.02 % of FS	± 0.04 % of FS	± 0.015 % of FS
750R29	0 to 3000 psi (0 to 200 bar)	316 SS	N/A	± 0.01 % of FS	± 0.02 % of FS	± 0.04 % of FS	± 0.015 % of FS
750R30	0 to 5000 psi (0 to 340 bar)	316 SS	N/A	± 0.01 % of FS	± 0.02 % of FS	± 0.04 % of FS	± 0.015 % of FS
750R31 ⁵	0 to 10000 psi (0 to 700 bar)	316 SS	N/A	± 0.01 % of FS	± 0.02 % of FS	± 0.04 % of FS	± 0.015 % of FS
750RD5	-15 to 30 psi (-1 to 2 bar)	Dry Air	N/A	± 0.01 % of FS	± 0.02 % of FS	± 0.04 % of FS	± 0.015 % of FS
750RD6 ⁵	-12 to 100 psi (-1 to 7 bar)	316 SS	N/A	± 0.01 % of FS	± 0.02 % of FS	± 0.04 % of FS	± 0.015 % of FS
750RD27	-12 to 300 psi (-0.8 to 20 bar)	316 SS	N/A	± 0.01 % of FS	± 0.02 % of FS	± 0.04 % of FS	± 0.015 % of FS

1. Total uncertainty, % of full span for temperature range 0 °C to +50 °C, one year interval. Total uncertainty, 1.0% of full span for temperature range -10 °C to 0 °C, one year interval. No 6 month specification available for range -10 °C to 0 °C.

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

3. Specifications % of Full Span unless otherwise noted.

4. Reference Uncertainty is the specification for as left data for 24 hours.

5. When reference class modules are used with fixed resolution products (717, 718, 719 series, 725 and 726) calibrators add ± 1 count to the overall accuracy specification.

6. Intrinsically Safe pressure module available in this pressure range.

Intrinsically safe products



Fluke 700G Series Pressure Gauge
(see page 6)



Fluke 750PEX Pressure Modules



Fluke 707EX mA Calibrator



Fluke 718EX Pressure Calibrator



Fluke 721EX Pressure Calibrator



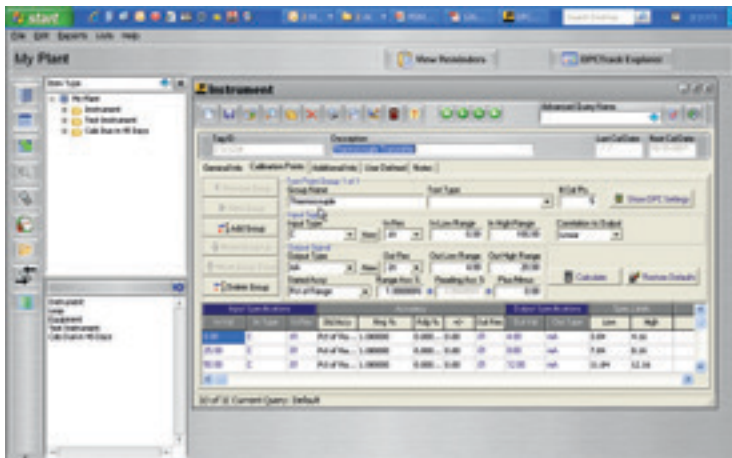
Fluke 725EX Multifunction Calibrator

Model	750PEX	707EX	718EX	721EX	725EX
Measure					
V dc		28 V			30 V
Resistance					3200 Ω
A dc		24 mA	24 mA	24 mA	24 mA
Frequency					10 kHz
Pressure			30 psi to 300 psi ¹	14 ranges	8 ranges ²
Temperature: RTDs				PT100 385	7 types
Temperature: TCs					12 types
Source/Simulate					
V dc					10 V
Resistance					3200 Ω
mA dc/% scale		24 mA			24 mA
mA source; auto step, auto ramp		•			•
Frequency					10 kHz
Temperature: RTDs					7 types
Temperature: TCs					12 types
Record					
Min/Max			•	•	
Hold			•		
Features					
Loop supply		24 V			12 V
Integrated hand pressure pump			•		
Traceable certification		•	•		•
Intrinsically safe certifications					
ATEX	II 1 G Ex ia IIC T4	II 2 G Ex ia IIC T4	II 1 G Ex ia IIC T4	II 2 G Ex ia IIB T3 Gb (Ta= -10... +45 °C)	II 1 G Ex ia IIB 171 °C
IECEX				II 2 G Ex ia IIB T3 Gb (Ta= -10... +45 °C)	
North American Certification	CSA 221839, I.S. Class I, Div 1, Groups A-D T4	FM Approved, N.I. Class I, Div 2, Groups A-D T4	I.S. Class I, Div 1, Groups A-D T4		I.S. Class I, Div 1, Groups B-D, 171 °C

¹Either the internal sensor or a Fluke 750PEX Pressure Module may be used ²Fluke 750PEX Pressure Module required

750SW DPCTrack2™ Software

FLUKE®



Fluke DPCTrack 2™ is an easy-to-use, single-user, entry-level instrumentation manager. For more sophisticated software, you may wish to investigate products from one of Fluke's software partners below.

www.fluke.com/dpctrack

750SW DPCTrack2™ Software

DPCTrack2 Software is a specialized database that can help you manage your instrumentation and address the documentation requirements of quality programs and regulations. With DPCTrack2™ and a 753/754 DPC you can:

- Manage your inventory of tags and instruments, schedule for calibration
- Create tag specific procedures with instructions and comment
- Load those procedures to your DPC, and later upload the results to your PC
- Select and execute automated as found/as left procedures in the field, automatically capturing results
- Examine the calibration histories of your tags and instruments and print reports
- Import and export instrument data and procedures as ASCII text
- Import legacy DPC/TRACK data

The 753 and 754 includes DPCTrack2™
60-day trial software.

Special offer

The DPCTrack2 and Fluke 754 have been combined to provide a complete paperless calibration solution. The Fluke-754/750SW BU, bundle is now available for great savings.

Prime Technologies

Meridium

PRM
Plant Resource Manager

PRM (Plant Resource
Manager) from Yokogawa
Electric Corporation.



AMS from Emerson Process
Management,
(formerly Fisher-Rosemount).

On Time Support

INTERGRAPH

These Fluke Process Calibration software partners provide differentiated solutions with connectivity to Fluke 753 and 754 Documenting Process Calibrators.

Pressure accessories, batteries

FLUKE®



700HTP-2



700PTP-1



700LTP-1



700TPK2



C799 Soft Field Case



700TTH5K

Fluke 700HTP-2 Hydraulic Test Pump

The Fluke 700HTP-2 is designed to generate pressures up to 10,000 psi/ 700 bar. Use the Fluke 700PRV-1 adjustable relief valves to limit pressures from 1360 psi to 5450 psi. Use the Fluke 700HTP-2 test hose to connect from the pump to the device under test.

Fluke 700PTP-1 Pneumatic Test Pump

The Fluke 700PTP-1 is a handheld pressure pump designed to generate either vacuum to -11.6 psi/-0.8 bar or pressure to 600 psi/40 bar.

Fluke-700LTP-1 Low Pressure Test Pump

Hand operated pressure pump designed to generate either vacuum to -13 psi/-0.90 bar or pressures to 100 psi/6.9 bar.

BP7240 Li-ion Battery

Spare battery for 75X calibrators. Have the power to easily run the calibrator for a full day's work. (for 74X calibrators use BP7235 NiMH Battery)

C799 Soft Field Case

Large fabric carrying case. Cutouts to hold one documenting process calibrator, one Fluke Pressure Module, one BC7240 Battery Charger, one spare BP7240 Battery Pack, and test leads.

700ILF In Line Filter

Trap fine particles from atmospheric air, compressed air, and instrument air. It is used with the Fluke 717, or 718 or 719 Pressure Calibrators up to 300 psi.

700TPK2 Premium Pneumatic Test Pump Kit

Adds premium hose kits to the standard 700TPK. Includes "finger tight" no tools required connectors to connect both a gauge and connection to a transmitter.

700TPK2 Premium Hydraulic Test Pump Kit

Adds premium hose kits to the standard 700HTPK. Includes "finger tight" no tools required connectors to connect both a gauge or pressure module and connection to a transmitter.

700TTH5K and 700TTH10K Premium Transmitter Test hose kits.

5,000 and 10,000 psi models. Included 1/4" NPT connection for permanent mount to test pump and no tools required 1/4" NPT male connector for connection to a transmitter.

700M20TH Premium Transmitter Test hose kit

5,000 psi rating. Includes 1/8" NPT connection for permanent mount to a calibrator or test pump and male no tools required connector for connection to Female M20 connections.

700MTH Premium Transmitter Test hose kit

5,000 psi rating. Includes 1/8" NPT connection for permanent mount to a calibrator or test pump and no tools required male 1/4" metric, BSP connector.

Fluke. Keeping your world up and running.®

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