

Fluke 726

Precision Multifunction Process Calibrator

Technical Data



More Calibration Power!

The Fluke 726 Precision Multifunction Process Calibrator is designed specifically for the Process industry with broad workload coverage, calibration power and unsurpassed accuracy in mind. The 726 measures and sources almost all process parameters and can calibrate almost anything. The 726 will also interpret results without the help of a calculator and store measurement data for later analysis.



726 features:

- More precise measurement and calibration source performance, accuracies of 0.01%.
- Transmitter error% calculation, interpret calibration results without a calculator
- Memory storage for up to 8 calibration results, return stored calibration data from the field for later analysis
- Frequency totalizer and frequency pulse train source mode for enhanced flowmeter testing
- HART mode inserts 250 ohm resistor in mA measure and source for compatibility with HART instrumentation
- Integrated pressure switch test allows you to capture the set, reset and deadband of a switch
- Custom RTD curves, add calibration constants for certified RTD probes for enhanced temperature measurement.
- voltage input protection design for improved reliability
- Two separate channels; measure, source and view process signals simultaneously
- Measure volts, mA, RTDs, thermocouples, frequency, and resistance to test sensors and transmitters
- Source/simulate volts, mA, thermocouples, RTDs, frequency, and pressure to calibrate transmitters
- Measure or *source pressure using any of 29 Fluke 700Pxx Pressure Modules
- Source mA with simultaneous pressure measurement to conduct valve and I/P tests
- Perform fast linearity tests with auto step and auto ramp features
- Power transmitters during test using 24 V loop supply and simultaneous mA measurement
- Store frequently-used test setups for later use
- Three-year warranty

*Pressure pump required

726 Specifications

Function Measure or Source	Range or Type	Resolution	Accuracy	Notes
Voltage	0 to 100 mV 0 to 20 V (source) 0 to 30 V (measure)	0.01 mV 0.01 V 0.01 V	0.01 % Rdg + 2 LSD	Max load, 1 mA
mA	0 to 24	0.001 mA	0.01 % Rdg + 2 LSD	Max load, 1000 Ω
mV (TC terminals)	-10.00 mV to +75.00 mV	.01 mV	0.01 % of range + 1 LSD	
Resistance	5 Ω to 4000 Ω	$\leq 0.01 \Omega$ to 0.1 Ω	0.015 %	
Frequency	2.0 to 1,000 CPM 1 to 1100 Hz 1.0 to 10.0 kHz 10.0 to 15.0 kHz	0.1 CPM 1 Hz 0.1 kHz 0.1 kHz	± 0.05 % ± 0.05 % ± 0.25 % ± 0.5 %	For frequency source; 1 V to 20 V p-p squarewave, -0.1 V offset
Loop Supply	24 V dc	N/A	10 %	
Thermocouples	J, K, T, E, L, N, U, C, BP, XK	0.1 $^{\circ}\text{C}$, 0.1 $^{\circ}\text{F}$	to 0.2 $^{\circ}\text{C}$	
Thermocouples	B, R, S	1 $^{\circ}\text{C}$, 1 $^{\circ}\text{F}$	to 1.2 $^{\circ}\text{C}$	
RTDs	Cu 10 Ni 120 (672) Pt 100, 200, 500, 1000 (385) Pt 100 (3916), Pt 100 (3926) Cu 10	0.1 $^{\circ}\text{C}$, 0.1 $^{\circ}\text{F}$ 0.01 $^{\circ}\text{C}$, 0.01 $^{\circ}\text{F}$	to 1.8 $^{\circ}\text{C}$ to 0.15 $^{\circ}\text{C}$	

Simultaneous Function Capability	Channel A	Channel B
24.000 mA DC	M	M or S
24.000 mA DC with 24 V loop supply	M	
100.00 mV DC		M or S
30.000 V DC measure	M	
20.000 V DC measure, 20.000 VDC Source		M or S
5 to 4000 Ohms		M or S
Thermocouple J, K, T, E, R, S, B, M, L, U, N, C, BP, XK		M or S
RTD Ni120; Pt100 (392); Pt100 (JIS); Pt100, 200, 500, 1000 (385), Cu 10		M or S
Pressure (requires Fluke 700PXX Modules)	M	M used as S
Frequency; Squarewave, 1 CPM to 10 kHz; fixed amplitude 5 V p-p		M or S

M = Measure, **S** = Source/Simulate

General Specifications

Storage temperature: -20 $^{\circ}\text{C}$ to 71 $^{\circ}\text{C}$
Operating temperature: -10 $^{\circ}\text{C}$ to 55 $^{\circ}\text{C}$
Relative humidity: 90 % (10 $^{\circ}\text{C}$ to 30 $^{\circ}\text{C}$);
75 % (30 $^{\circ}\text{C}$ to 40 $^{\circ}\text{C}$); 45 % (40 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$); 35 % (50 $^{\circ}\text{C}$ to 55 $^{\circ}\text{C}$)
Shock: 1 meter drop test
Safety: CSA C22.2 No. 1010.1:1992
EMC: EN50082-1:1992 and
EN55022:1994 Class B
Size (HxWxD): 200 mm x 96 mm x 47 mm
(7.9 in x 3.8 in x 1.9 in)
Weight: 650 g (23 oz)
Battery: Four AA alkaline batteries
Battery life: 25 hours typical
Warranty: Three-years

Ordering Information

Fluke-726 Precision Multifunction
Process Calibrator

Included

TL75 Test Leads, AC72 Test Clips, one pair
of stackable test leads, product overview
manual (print) and user's manual (CD-ROM)
in 14 languages.

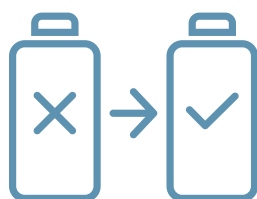
Fluke Premium Care plans

Coverage that prevents unexpected downtime caused by damaged test equipment, accessories, or tools in need of calibration or repair.



Accidental damage and repair

Avoid costly repairs and rest easy knowing that any damage to your test tool is covered



Replacement of damaged accessories

Replace damaged accessories that could be affecting the accuracy of your test results at no extra cost



Annual tool inspection, calibration, cleaning, and updating

Ensure your test tool is providing accurate results and adheres to regulatory compliance by leaving it in the hands of our experts



Expedited calibration and repair

Skip the wait—your calibration or repair will be expedited so you can get back to your tool and work faster

	Standard warranty	Premium Care-Standard	Premium Care-Gold
Repair manufacturing defects	•	•	•
Accidental damage and repair		•	•
Replacement of damaged accessories		•	•
Annual calibration or performance check		•	•
Expedited calibration and repair		•	•
Priority tech support		•	•
Software updates		•	•
Expedited shipping		•	•
Loaner equipment			•

Fluke Premium Care support plans selection chart

Description		Choose your Fluke Premium Care service level			
		1-year Standard	3-year Standard	1-year Gold	3-year Gold
Acoustic imagers	Fluke ii900 Industrial Acoustic Imager	FPC1S-II900-1	FPC3S-II900-1	-	-
	Fluke ii910 Precision Acoustic Imager	FPC1S-II910-1	FPC3S-II910-1	-	-
	Fluke ii900 Industrial Acoustic Imager with 1 Year of Premium Care-Standard	FLUKE-II900/FPC	-	-	-
	Fluke ii910 Precision Acoustic Imager with 1 Year of Premium Care-Standard	FLUKE-II910/FPC	-	-	-
PQ analyzers	Fluke 1770 Series Power Quality Analyzers (1773, 1775, 1777)	FPC1S-FPQ170-1	FPC3S-FPQ170-1	FPC1G-FPQ170-1	FPC3G-FPQ170-1
	Fluke 1775 Power Quality Analyzer with 1 Year of Premium Care-Standard	FLUKE-1775/FPC	-	-	-
	Fluke 1777 Power Quality Analyzer with 1 Year of Premium Care-Standard	FLUKE-1777/FPC	-	-	-
PQ loggers	Fluke 1730 Series Power Quality Loggers (1732, 1734, 1736, 1738)	FPC1S-FPQ173-1	FPC3S-FPQ173-1	FPC1G-FPQ173-1	-
	Fluke 1736 Series Power Quality Logger with 1 Year of Premium Care-Standard	FLUKE-1736/FPC	-	-	-
	Fluke 1738 Series Power Quality Logger with 1 Year of Premium Care-Standard	FLUKE-1738/FPC	-	-	-
Process tools	Fluke 754 and 753 Documenting Process Calibrator	FPC1S-FLUKE75X-1	FPC3S-FLUKE75X-1	-	-
	Fluke 729 Pressure Calibrators	FPC1S-FLUKE729-1	FPC3S-FLUKE729-1	-	-
	Fluke 726, 725 and 721 Precision Multifunction Calibrators	FPC1S-FLUKE72X-1	FPC3S-FLUKE72X-1	-	-
	Fluke 719PRO, 719 and 718 Pressure Calibrators	FPC1S-FLUKE71X-1	FPC3S-FLUKE71X-1	-	-
	Fluke 750P Pressure Modules	FPC1S-FLUKE-750PM-1	FPC3S-FLUKE-750PM-1	-	-
	Fluke 700G Pressure Gauges	FPC1S-FLUKE-700GA-1	FPC3S-FLUKE-700GA-1	-	-
	Fluke 754 Documenting Process Calibrator with 1 Year of Premium Care-Standard	FLUKE-754/FPC	-	-	-
	Fluke 726 Precision Multifunction Calibrator with 1 Year of Premium Care-Standard	FLUKE-726/FPC	-	-	-
	Fluke 725 Precision Multifunction Calibrator with 1 Year of Premium Care-Standard	FLUKE-725/FPC	-	-	-
Motor drive analyzers	Fluke MDA-550-III Motor Drive Analyzer	FPC1S-MDA-500-1	FPC3S-MDA-500-1	FPC1G-MDA-500-1	FPC3G-MDA-500-1
	Fluke MDA-550-III Motor Drive Analyzer with 1 Year of Premium Care-Standard	FLUKE-MDA-550/FPC	-	-	-
Multi-function PV testers	Fluke SMFT-1000 PV Analyzer I-V Curve Tracer	FPC1S-SMFT-1000-1	FPC3S-SMFT-1000-3		
	Fluke SMFT-1000 PV Analyzer I-V Curve Tracer with 1 Year of Premium Care-Standard	FLK-SMFT-1000/FPC	-	-	-
Scope meters	Fluke ScopeMeter 190 Series III (190-062, 190-102, 190-104, 190-202, 190-204, 190-502, 190-504)	FPC1S-SCM190-1	FPC3S-SCM190-1	FPC1G-SCM190-1	FPC3G-SCM190-1
	Fluke 190-504-III ScopeMeter Test Tool with 1 Year of Premium Care-Standard	FLUKE-190-504/FPC	-	-	-