Fluke 726 Precision Multifunction Calibrators

Rating: Not Rated Yet
Ask a question about this product

ManufacturerFluke

Description

Product overview: Fluke 726 Precision Multifunction Calibrators

Fluke 726 Precision Multifunction Process Calibrator designed specifically for the process industry

The Fluke 726 is a precise and powerful, yet easy-to-use field calibrator. It features broad workload coverage, calibration power, and unsurpassed accuracy needed by process professionals. It measures and sources almost all process parameters to calibrate almost anything. Use it to test sensors and valves and test and calibrate transmitters. The 726 interprets results without the help of a calculator and stores measurement data for later analysis.

Other useful features:

- A backlit display provides better visibility in poor light • Stores frequently-used test setups for later use
- Program custom RTD probe calibration constants of certified RTD probes for enhanced temperature measurement
- Voltage input protection design for improved reliability
- Three-year warranty If you need an intrinsically-safe rated calibrator, consider the Fluke 725Ex Intrinsically Safe Multifunction Process Calibrator. If you want documenting and HART communication built into your calibrator, consider the Fluke 754 Documenting Process Calibrator with HART.
- Features frequency totalizer and frequency pulse train source mode for enhanced flowmeter testing
- Measures volts, mA, pressure, RTDs, thermocouples, frequency, and resistance to test sensors and transmitters
- Sources/simulates volts, mA, thermocouples, RTDs, frequency, and pressure to calibrate transmitters
- Measures or sources pressure using any of 50 Fluke 750P series Pressure Modules
- Sources mA with simultaneous pressure measurement to conduct valve and I/P tests
- Provides two separate channels to measure, source and view process signals simultaneously
- Provides an integrated pressure switch test to allow you to capture the set, reset, and deadband of a switch
- Provides transmitter error % calculation to interpret calibration results without a calculator
- Performs fast linearity tests with auto-step and auto-ramp features
- Powers transmitters during test using 24 V loop supply and simultaneous mA measurement

If you need an intrinsically-safe rated calibrator, consider the Fluke 725Ex Intrinsically Safe Multifunction Process Calibrator.

If you want documenting and HART communication built into your calibrator, consider the Fluke 754 Documenting Process Calibrator with HART.

Key features

- Precision multifunction process calibrator designed specifically for the process industry
- Delivers precise measurement and calibration source performance with accuracies of 0.01%.
- Stores up to eight calibration results in memory for later analysis
- Offers HART mode that inserts a 250 ohm resistor in mA measure and source for compatibility with HART instrumentation

Specifications: Fluke 726 Precision Multifunction Calibrators

Measurement Accuracy		
Voltage DC	**30.000 V**	0.01% + 2 mV (upper display)
	20.000 V	0.01% + 2 mV (lower display)
	90.00 mV	0.01% + 10 ?V
	-10.00 mV to 75.00 mV	0.025% + 1 count (via TC connector)
Current DC	**24.000 mA**	0.01%+ 2 mA
Resistance	**0.0 to 4000.0 ?**	± 0.015%
Frequency	**2.0 to 1000.0 CPM**	0.05% + 0.1 cpm
	1.0 to 1000.0 Hz	0.05% + 0.1 Hz
	1.00 to 15.00 kHz	0.05% + 0.01 kHz
	Sensitivity	1 V peak-to-peak-minimum
Pressure	Accuracy from 0.025% of range using any of 29 pressure modules (for detailed specifications refer to pressure modules in options and accessories). Modules available for differential, gauge, vacuum, absolute, dual and high pressure.	
Source Accuracy		
Voltage DC	**100.00 mV**	0.01% + 10 ?V
	20.000 V	0.01% + 2 mV
	-10.00 mV to 75.00 mV	0.025% + 1 count (via TC connector)
Current DC	**24.000 mA (Source)**	0.01% + 2 ?A
	24.000 mA (Simulate)	0.01% + 2 ?A
Resistance	**Range, accuracy (percent of reading + floor) and excitation current**	5 to 400 ?, 0.015% + 0.1 ?, 0.1 to 0.5 mA
		5 to 400 ?, 0.015% + 0.05 ?, 0.5 to 3 mA
		400 to 1500 ?, 0.015% + 0.5 ?, 0.05 to 0.8 mA
		1500 to 4000 ?, 0.015% + 0.5 ?, 0.05 to 0.4 mA
Frequency	**2.0 to 1000.0 CPM**	0.05%
	1.0 to 1000.0 Hz	0.05%
	1.0 to 10.0 kHz	0.25%
	10.0 to 15.0 kHz	0.5%
	Waveform	5 V p-p squarewave, -0.1 V offset
RTDs and Thermocouples		
Measure and source accuracy	**Cu10**	1.8°C
	NI-120	0.15°C
	PT-100 (385)	0.45°C
	PT-100 (392)	0.35°C
	PT-100 (391-JIS)	0.35°C
	PT-200 (385)	0.95°C
	PT-500 (385)	0.55°C
	PT-1000 (385)	0.35°C
	RTD Resolution	0.01°C (0.01°F)
	Cu10.01 C	0.1°C (0.1°F)
	J	0.4°C
	K	0.5°C
	T	0.4°C
	E	0.4°C
	R	1.4°C
	S	1.4°C
	B	1.4°C
	L	0.45°C
	U	0.45°C
	N	0.6°C
	XK	0.4°C
	BP	1.1°C
	TC Resolution	J, K, T, E, L, N, U: 0.1°C, 0.1°F B, R, S: 1°C, 1°F
Specifications		

Ramp functions	**Source functions**	Voltage, current, resistance, frequency, temperature
	Ramps	Slow ramp, Fast ramp, 25% step-ramp
Loop power function	**Voltage**	24 V
	Accuracy	10%
	Maximum current	22 mA, short circuit protected
Step functions	**Source functions**	Voltage, current, resistance, frequency, temperature
	Steps	25% of range, 100% of range
Environmental Specifications		
Operating temperature	-10°C to +55°C	
Storage temperature	-20°C to +71°C	
Operating altitude	3000 m	
Safety Specifications		
Agency approvals	EN 61010-1:1993, ANSI/ISA S82.01-1994; CAN/CSA C22.2 No 1010.1:1992	
Mechanical and General Specifications		
Size	200 x 96 x 47 mm (7.9 x 3.8 x 1.9 in)	
Weight	650 g (23 oz)	
Batteries	4 AA alkaline batteries	
Battery replacement	Separate battery compartment, accessible without breaking calibration seal	
Side port connections	Pressure module connector, also used for remote real-time programming	