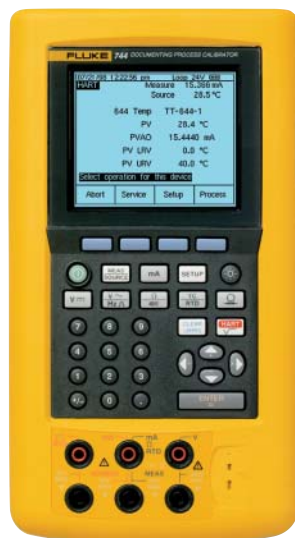# 740 Series Documenting Process Calibrators

FLUKE ®

Fluke 744

Fluke 743B

Fluke 741B

Calibrators as versatile as you are

The 740 series Documenting Process Calibrators are rugged, handheld tools for the calibration and troubleshooting of process control instrumentation. These calibrators:
- Calibrate temperature, pressure, voltage, current, resistance, and frequency
- Simultaneously measure and source
- Automatically capture calibration results
- Document procedures and results to meet ISO 9000, EPA, FDA, OSHA, and other government requirements
- Measure/simulate eleven types of thermocouples and eight RTDs
- Store up to 8,000 readings in data logging mode (743B +744 only)
- Protected against dirt, dust, and moisture; unaffected by vibration
- PC interface (743B +744 only)
- Operates in English, French, German, Italian, and Spanish
- One and two-year calibration cycles
- Four types of built-in automated calibration procedures; linear transmitter, square root devices, one and two-point limit switches

741B: A complete documenting calibrator

The 741B is the economical choice for plants that don't use PCs or that require traditional paper forms. It has storage capacity for a day's calibration and measurement data. When you're back at the shop, recall the data on-screen to fill out calibration forms.

743B: More memory, plus a PC interface and data logging

The 743B has all the capabilities of the 741B plus a PC interface that lets you download procedures, lists, and instructions created with software–or upload data for printing, archiving, and analysis. With its expanded memory, the 743B can hold a full week of calibrations and procedures.

744: Get HART-ability

The Fluke 744 offers all of the capabilities of the 743B, plus the ability to calibrate, maintain, and troubleshoot HART instrumentation with just one tool. This rugged, reliable tool offers:
- Integrated HART communication functions, permitting you to monitor, control, and calibrate HART instrumentation.
- NiMH battery with 3500 mA hour life and battery indicator.

Instrumentation Management Software

The Fluke 743B and 744 are compatible with Fluke 700SW DPC/TRACK software and with software from Cornerstone, Fisher–Rosemont, Honeywell, Yokogawa, Prime Technologies and On Time Support.

Included Accessories

Fluke 741B/743B: TL224 Industrial Test Leads (2 sets), AC220 Test Clips (2 sets), TP220 Test Probes (1 set), BP7217 Battery Pack, BC7217 Battery Charger, Instruction Manual, NIST Traceable calibration certificate and data, three–year warranty, serial port cable (743B only), DPC/TRACK Sample Version with free PC communication utility software (743B only).

Fluke 744: TL224 Industrial Test Leads (2 sets), AC220 Test Clips (2 sets), TP220 Test Probes (1 set), BP7235 NiMH Battery Pack, BC7217 Battery Charger, serial port cable, HART communications cable, DPC/TRACK Sample Version with free PC communication utility software, Instruction Manual, HART Users Manual, NIST Traceable calibration certificate and data.

Ordering Information

Fluke 741B   Documenting Process Calibrator
Fluke 743B   Documenting Process Calibrator
Fluke 744   Documenting Process Calibrator
700SW   DPC/Track Software

10030-eng   Rev. 07

Specifications

(Check the Fluke web for detailed specifications)

Function	Measure	Sourcing
Voltage DC	0.025% reading + 0.005% full scale	0.01% output + 0.005% full scale
Current DC	0.01% reading + 0.015% full scale	0.01% output + 0.015% full scale
Resistance	0.05% reading + 50mΩ	0.01% output + 40mΩ
Frequency	0.05%	0.01%
Thermocouples	0.3°C	0.2°C
RTDs	0.3°C	0.1°C
Pressure	To 0.05% of full scale. See Pressure Module specifications.	

Operating temperature: –10º C to 50º C
Safety: CAT II 300V
Battery Life: Typically over eight hours
Internal Battery Pack: NiCd, 7.2V, 1700 mAh

Battery Replacement: Via snap-shut door without opening calibrator; no tools required
Weight: 1.4 kg
Size (HxWxD): 236 mm x 130 mm x 61 mm
Three Year Warranty

Recommended Accessories

C789

TL220

80PK-8

80PK-25

700P27