

1740 Series Three-Phase Power Quality Loggers Memobox



Fluke 1743

Fluke 1744



Fluke 1745



The included PQ Log software helps you to quickly identify the root cause of a disturbance.

Assess power quality and conduct long-term studies with ease

Compact, rugged and reliable, the Fluke 1740 Series three-phase power quality loggers are everyday instruments for technicians who troubleshoot and analyze power distribution systems. Capable of simultaneously logging up to 500 parameters for up to 85 days and capturing events, the Fluke 1740 Series helps uncover intermittent and hard-to-find power quality issues. There are three models to choose from to meet your basic or advanced power logging needs.

Fluke 1743: IP65 waterproof monitor for logging the most common power parameters including V, A, W, VA, VAR, PF, energy, flicker, voltage events and THD.

Fluke 1744: Includes the same features as the Fluke 1743. In addition to common power parameters, the Fluke 1744 also measures voltage and current harmonics, interharmonics, mains signaling, unbalance, and frequency.

Fluke 1745: Advanced IP50 power quality logger with the same measurement capability as the 1744, plus real-time LCD, five hour UPS.

- **Plug and play:** Set up in minutes with automatic current probe detection and powering
- **Installs inside the cabinet:** Compact, fully-insulated housing and accessories fit easily in tight spaces next to live power
- **Monitors power for the long-term:** Data can be downloaded during recording without interruption
- **Measure voltage with premium accuracy:** IEC61000-4-30 Class-A compliant voltage accuracy (0.1%)
- **Quickly validate quality of power:** Assess power quality according to EN50160 power quality standard with statistical overview

Specifications

(Check the Fluke web for detailed specifications)

	1745	1744	1743
Measurement of common power parameters: V, A, W, VA, VAR, PF, energy, flicker, voltage events (dips, swells, interruptions), and THD	●	●	●
Measurement of voltage and current harmonics to the 50th, unbalance, frequency and mains signaling	●	●	
Dust/water resistance	IP 50	IP 65 waterproof	
Display	LED + LCD	LED	LED
Memory	8 MB	8 MB	8 MB
UPS ride-through	> 5 hrs	3s	3s
EN 50160	●	●	●

Included Accessories

Fluke 1743/1744/1745: FS17XX flexible current clamp set, VL1735/1745 voltage lead set (1745 only), Power Log software, RS232 interface cable and RS232-USB adapter, 4 black dolphin clips, WC17XX color localization set, carrying bag, test certificate with measurement values, printed English manual and multi-language manual on CD.

Basic models: Excl. current clamps FS17XX

Ordering Information

Fluke 1743 Basic	Power Quality Logger Memobox
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Fluke 1744 Basic	Power Quality Logger Memobox
Fluke 1744	Power Quality Logger Memobox
Fluke 1745	Power Quality Logger Memobox

Power supply: 88 V ... 660 V AC
Safety: IEC/EN 61010-1 600 V CAT III, 300 V CAT IV, pollution degree 2, double insulation
Housing: Fully insulated housing and accessories
Operating temperature: 0 °C to 35°C
Interface: RS 232, 9600 ... 115 000 Baud, automatic Baud rate selection, 3-wire communication

Size: Fluke 1745: 282 mm x 216 mm x 74 mm;
 Fluke 1743/44: 170 mm x 125 mm x 55 mm
Weight: Fluke 1745 – approx. 3 kg;
 Fluke 1743/44: approx. 2 kg
Two Year Warranty