

# Fluke 1742, 1746 and 1748 Three-Phase Power Quality Loggers



Fluke 1746



## Troubleshoot, quantify energy usage and perform quality of service surveys easier than ever

The Fluke 1742, 1746 and 1748 Three-Phase Power Quality Loggers give you fast, easy access to the data you need to make critical power quality and energy decisions in real time, and with the included Energy Analyze Plus software package you can easily create detailed reports.

Fully compliant with international power quality standards such as IEC 61000-4-30 Class A including local compliance to a variety of national and international standards and capable of simultaneously logging up to 500 parameters while also capturing events, the Fluke 1740 Series helps uncover intermittent and hard-to-find power quality issues more easily than ever. Energy Analyze Plus software quickly assesses the quality of power at the service entrance, substation, or at the load, according to national and international standards.

- "In-workshop" or "in-the-field" setup and download through PC application software using USB Memory Stick, Wi-Fi download, wired ethernet connection or via USB cable
- One-touch reporting: Create standardized reports or export data in PQDIF or NeQual compatible format for use with third-party software
- Capture dips, swells and interruptions
- Measures harmonics and interharmonics for voltage and current; also includes unbalance, flicker and rapid voltage changes
- Two-year warranty (battery not included)

| Measure all power quality and power parameters         | 1742 Power Quality Logger | 1746 Power Quality Logger | 1748 Power Quality Logger |
|--|---------------------------|---------------------------|---------------------------|
| <b>Functions</b>                                       |                           |                           |                           |
| Energy   | •                         | •                         | •                         |
| Basic Power Quality                                    | Optional                  | •                         | •                         |
| Advanced Power Quality                                 | Optional                  | Optional                  | •                         |
| <b>Selection Guide</b>                                 |                           |                           |                           |
| <b>Functions</b>                                       |                           |                           |                           |
| Voltage, current, power, power factor, frequency       | •                         | •                         | •                         |
| Energy forward/reverse                                 | •                         | •                         | •                         |
| Peak Demand  | •                         | •                         | •                         |
| THD  | •                         | •                         | •                         |
| Voltage and current harmonics (to 50th)                | -                         | •                         | •                         |
| Flicker  | •                         | •                         | •                         |
| Unbalance  | -                         | •                         | •                         |
| Rapid voltage change events                            | -                         | •                         | •                         |
| Interharmonics (to 50th)                               | -                         | •                         | •                         |
| Dips, swells, interruption and transient events tables | -                         | •                         | •                         |
| Mains signaling  | -                         | •                         | •                         |
| Inrush current   | -                         | •                         | •                         |
| Transients (low frequency)/Waveform deviation events   | -                         | -                         | •                         |
| <b>Recording</b>                                       |                           |                           |                           |
| Trend  | •                         | •                         | •                         |
| Waveform snapshots                                     | -                         | -                         | •                         |
| RMS profile  | -                         | -                         | •                         |
| <b>Communication</b>                                   |                           |                           |                           |
| Ethernet   | •                         | •                         | •                         |
| USB (mini B)   | •                         | •                         | •                         |
| WiFi download Instrument to device                     | •                         | •                         | •                         |
| Wifi download via WiFi hub (requires registration)     | Opt.                      | Opt.                      | Opt.                      |

## Recommended Accessories



**117XX-FLEX1.5KIP**  
IP65 iFlex™ 1.5KA 60 cm (24") Current Probes (Purchase as individual, 3pk or 4pk)



**117XX-FLEX3KIP**  
IP65 iFlex™ 3KA 60 cm (24") Current Probes (Purchase as individual, 3pk or 4pk)



**117XX-FLEX6KIP**  
IP65 iFlex™ 6KA 90 cm (36") Current Probes (Purchase as individual, 3pk or 4pk)



**140S-EL/3PK**  
40 A Clamp-On Current Transformer (Purchase as individual or 3pk)



**IP65 VOLT CONN**  
IP65 Rated Voltage Connector



**MP1-3R/1B**  
Magnet Probe 1 (3× Red, 1× Black)



**3PHVL-1730-5M**  
Cable Assembly, Voltage Test Lead 3-Phase+N 5 m



**17XX AUX**  
Auxiliary Input Adapter



**174X-HANGER**  
174X Hanger Kit



**1742-6/8 UPGRADE**  
Upgrade Kit 1742 to 1746/1748 & 1746 to 1748

## Included Accessories

4× Flexible Current Probes, USB Stick, USB Cable, 3PHVL-1730 3-Phase + Neutral Voltage Test Lead, Test Lead Set Red/Black 0.18m, Test Lead Set Red/Black 1.5m, 4× Alligator Clips, 173X/174X Soft Case, Cable Marker Kit, MP1-3R/1B-Magnet Probe 1 Set (3 Red, 1 Black) and Hanger Kit (1748).

## Ordering Information

|                          |                                  |
|--------------------------|----------------------------------|
| <b>FLUKE-1742/15/EUS</b> | Three-Phase Power Quality Logger |
| <b>FLUKE-1742/30/EUS</b> | Three-Phase Power Quality Logger |
| <b>FLUKE-1746/15/EUS</b> | Three-Phase Power Quality Logger |
| <b>FLUKE-1746/30/EUS</b> | Three-Phase Power Quality Logger |
| <b>FLUKE-1748/15/EUS</b> | Three-Phase Power Quality Logger |
| <b>FLUKE-1748/30/EUS</b> | Three-Phase Power Quality Logger |

Contact your local distributor for price and availability.  
fluke.com/wtb