

TECHNICAL DATA

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



## Key features

- **Measure key power quality parameters** harmonics and interharmonics for voltage and current, unbalance, flicker and rapid voltage changes.
- **Measure with premium accuracy** rigorous IEC 61000-4-30 Class A Edition 3 standard for 'Testing and measurement techniques—Power quality measurement methods.'
- **One-touch standardized reporting** including EN 50160, IEEE 519, GOST 33073 or export data in PQDIF or NeQual compatible format for use with third party software using Fluke Energy Analyze Plus Software.

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

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. With the included [Energy Analyze Plus](#) software package you can easily create detailed reports.

Get the [Fluke Guide to Choosing Power Quality Tools](#)

## Upgrade according to future needs

The Fluke 1748 logs over 500 different parameters for each averaging period. This allows you to analyze power quality in detail and to correlate intermittent events with detailed waveform data, helping to identify the root cause of disturbances. For basic power quality logging, the Fluke 1746 captures all relevant power parameters for performing energy saving studies

and electrical network planning with a full upgrade option to 1748 available. For simple load and energy studies the Fluke 1742 offers optimal performance in a rugged package and can be upgraded to 1746, or complete 1748, functionality.

## National and international standards

Compact and rugged, the Fluke 1740 Series Three-Phase Power Quality Loggers are designed specifically for technicians and engineers who need the flexibility to troubleshoot, quantify energy usage and analyze power distribution systems. Fully compliant with international power quality standards such as IEC 61000-4-30 Class A 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 including EN 50160 and IEEE 519.

An optimized user interface, flexible current probes, and an intelligent measurement verification function that allows you to digitally verify and correct connections makes setup easier than ever and reduces measurement uncertainty. Minimize your time in potentially hazardous environments and reduce the hassle of suiting up in PPE by using a wireless connection (Wi-Fi) to view data directly in the field.

## Analysis and reporting

Capturing logged data is just one part of the task. Once you have the data, you need to create useful information and reports that can be easily shared and understood by your organization or customers. Fluke [Energy Analyze Plus](#) software makes that task as simple as possible. With powerful analysis tools and the ability to create customized reports in minutes you'll be able to communicate your findings and quickly solve problems so you can optimize system reliability and savings. A range of built-in report templates for industry standards such as EN 50160, IEEE 519 and GOST enable one-click reporting so you can create high quality reports at the touch of a button. Reports can be modified as standards evolve, or new versions become available.

## Which power logger is right for you?

Features	1742	1746	1748
<b>Functions</b>			
Voltage, current, power, power factor, frequency	•	•	•
Energy forward/reverse	•	•	•
Peak Demand	•	•	•
THD	•	•	•
Flicker	•	•	•
Voltage and current harmonics (to 50th) <sup>1</sup>		•	•
Unbalance <sup>1</sup>		•	•
Rapid voltage change events <sup>1</sup>		•	•
Interharmonics (to 50th) <sup>1</sup>		•	•
Dips, swells, interruption and transient events tables <sup>1</sup>		•	•
Inrush current <sup>1</sup>		•	•
Transients (low frequency) / Waveform deviation events <sup>2</sup>			•
<b>Recording</b>			
Trend	•	•	•
Waveform snapshots <sup>2</sup>			•
RMS profile <sup>2</sup>			•
<b>Communication</b>			
Ethernet	•	•	•

USB (mini B)	•	•	•
Wi-Fi download Instrument to device	•	•	•
Wi-Fi download via Wi-Fi hub (free with registration)	Opt.	Opt.	Opt.

**Included accessories**

Flexible current probe	not /B version	not /B version	not /B version
USB stick	•	•	•
USB cable	•	•	•
3PHVL-17XX cable assembly	•	•	•
FLUKE-17XX-TL 0.18M test lead set	•	•	•
FLUKE-17XX-TL 2M test lead set	•	•	•
Alligator clips	4	4	4
173x/174x Soft Case	•	•	•
Cable marker kit	•	•	•
MP1-3R/1B-Magnet Probe 1 set (3 red, 1 black)	Opt.	1	1
174x-Hanger Kit	Opt.	Opt.	•

## Software features

- **"In-workshop" or "in-the-field" setup and download through PC application software:** simple download using USB memory stick, Wi-Fi download, wired Ethernet connection or via USB cable.
- **Energy Analyze Plus application software:** Download and analyze every measured detail of energy consumption and power quality state-of-health with automated reporting.
- **One-touch reporting:** Create standardized reports according to commonly used standards like EN 50160, IEEE 519, GOST 33073 or export data in PQDIF or NeQual compatible format for use with third party software.
- **Advanced analysis:** Choose any available logged parameter to create a highly customized view of logged measurements for advanced correlation of data.

## Hardware features

- **Measure all three voltage and current phases plus the neutral current:** Three-phase and neutral voltage leads and four flexible current probes or optional current clamps for CT secondary current.
- **Comprehensive logging:** More than 20 separate logging sessions can be stored in the instrument. A comprehensive range of power and power quality variables are automatically logged so you never lose measurement trends.
- **Measure with premium accuracy:** Meets the rigorous IEC 61000-4-30 Class A Edition 3 standard for 'Testing and measurement techniques—Power quality measurement methods.'
- **Capture dips, swells and interruptions:** The 1748 includes event waveform capture and RMS event profile, along with date, timestamp and severity information to help pinpoint potential root causes of power quality issues.
- **Measure key power quality parameters:** Measures harmonics and interharmonics for voltage and current, also includes unbalance, flicker and rapid voltage changes.
- **Optimized user interface:** Capture the right data every time with quick, guided, graphical PC based application setup and reduce uncertainty about your connections with an intelligent verification feature and the only auto-correction function for a power quality logger. Connection errors are automatically indicated via an amber light on the unit's power button, this light turns green once corrected.
- **Optimized user interface:** Quick, guided, graphical setup ensures you're capturing the right data every time, and the intelligent verification function indicates correct connections have been made, reducing user uncertainty.
- **Flexible power supply:** Powers directly from the measured circuit with the widest available range for a power quality logger automatically going from 100 V to 500 V or from a wall line cord, so you can test anywhere.
- **Rugged and reliable:** Designed to withstand harsh installation environments with IP65 rating when used with IP65 voltage input adapter.
- **Two external USB ports:** One for PC connection and another for quick, simple data download to standard USB thumb drives, allowing you to leave the measurement device in place and download without disrupting logging.

- **Ethernet connectivity:** Wired and wireless connections for instrument setup and high-speed data download.
- **Compact size:** Designed to fit in tight spaces and panels with small 23 cm x 18 cm x 5.4 cm (9.1 in x 7.1 in x 2.1 in) footprint.
- **Highest safety rating in the industry:** 600 V CAT IV/1000 V CAT III rated for use at the service entrance and downstream.
- **Optimized measurement accessories:** Unique tangle-free flat voltage cable and thin flexible current probes ensure easy installation even in tight spaces.
- **Battery life:** Four-hour operating time (backup time) per charge on lithium-ion battery to withstand temporary power disruptions.
- **Security:** Safeguard your best asset from theft with a standard chain or other security device.
- **Magnetic hanger kit:** Conveniently stow the instrument safely inside or outside of electrical panels; compatible with all models and included with 1748 model as standard.

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

Specifications				
Accuracy				
Parameter		Range	Maximum Resolution	Intrinsic Accuracy at Reference Conditions (% of Reading + % of Range)
Voltage		1000 V	0.1 V	±0.1 % of nominal voltage <sup>1,2</sup>
Current: Direct input	i17xx-flex 1500IP 24 1500 A	150 A	0.01 A (min. 1.5A) <sup>3</sup>	±(1% + 0.02%)
		1500 A	0.1 A	
	i17xx-flex 3000IP 24 3000 A	300 A	0.01 A (min. 3.0 A) <sup>3</sup>	±(1% + 0.03%)
		3000 A	0.1 A	
	i17xx-flex 6000IP 36 6000 A	600 A	0.01 A (min. 6.0 A) <sup>3</sup>	±(1.5% + 0.03%)
		6000 A	0.1 A	
	i40s-EL clamp	4 A	1 mA	±(0.7% + 0.02%)
		40 A	10 mA	
Frequency		42.5 Hz to 69 Hz	0.01 Hz	±(0.1%) <sup>2</sup>
Auxiliary input		±10 V dc	0.1 mV	±(0.2% + 0.02%)
Voltage min/max		1000 V	0.1 V	±0.2 % of nominal input voltage <sup>1</sup>
Current min/max		Defined by accessory	Defined by accessory	±(5% + 0.2%)
THD on voltage		1000%	0.10%	± 2.5%
THD on current		1000%	0.10%	± 2.5%
Voltage harmonics 2nd to 50th		1000 V	0.1 V	≥ 1 V: ±5% of reading
				< 1 V: ±0.05V

Current harmonics 2nd to 50th	Defined by accessory	Defined by accessory	≥ 3% of current range: ±5% of reading		
			< 3% of current range: ±0.15% of range		
Flicker P <sub>LT</sub> , P <sub>ST</sub>	0 to 20	0.01	5%		
Current probe accuracy					
Parameter	Influence quantity	iFlex1500IP-24	iFlex3000IP-24	iFlex6000IP-36	i40S-EL
		150 A / 1500 A	300 A / 3000 A	600 A / 6000 A	4 A / 40 A
Active Power P	PF ≥ 0.99	1.2% + 0.005%	1.2% + 0.0075%	1.7% + 0.0075%	1.2% + 0.005%
Active Energy E <sub>a</sub>					
Apparent power S	0 ≤ PF ≤ 1	1.2% + 0.005%	1.2% + 0.0075%	1.7% + 0.0075%	1.2% + 0.005%
Apparent Energy E <sub>ap</sub>					
Reactive power Q	0 ≤ PF ≤ 1	2.5% of measured apparent power			
Reactive Energy E <sub>r</sub>					
Power Factor PF	-	±0.025			
Displacement Power					
Factor DPF/cosΦ					
Additional uncertainty in% of range	V <sub>P-N</sub> > 250 V	0.015%	0.023%	0.023%	0.015%
<sup>1</sup> In the range of 100 V ... 500 V; also known as U <sub>din</sub> <sup>2</sup> 0 °C ... 45 °C: Intrinsic accuracy x 2, outside of 0 °C ... 45 °C: Intrinsic accuracy x 3 <sup>3</sup> Consult operators manual for details  Reference conditions: Environmental: 23 °C ± 5 °C, instrument operating for at least 30 minutes, no external electrical/magnetic field, RH < 65 % Input conditions: Cosφ/PF=1, Sinusoidal signal f=50 Hz/60 Hz, power supply 120 V/230 V ±10 %. Current and power specifications: Input voltage 1 ph: 120 V/230 V or 3 ph wye/delta: 230 V/400 V Input current: I > 10 % of I range Primary conductor of clamps or Rogowski coil in center position Temperature coefficient: Add 0.1 x specified accuracy for each degree C above 28 °C or below 18 °C					
Electrical Specifications					
Power Supply					
Voltage range	100 V to 500 V using safety plug input when powering from the measurement circuit				
	100 V to 240 V MA-C8 and using standard power cord (IEC 60320 C7)				
Power consumption	Maximum 50 VA (max. 15 VA when powered using MA-C8 adapter)				
Efficiency	≥ 68.2% (in accordance with energy efficiency regulations)				
Maximum no-load consumption	< 0.3 W only when powered using IEC 60320 input				
Mains power frequency	50/60 Hz ±15%				
Battery	Li-ion 3.7 V, 9.25 Wh, customer-replaceable				

On-battery runtime	Typically 4 hours
Charging time	< 6 hours
Data Acquisition	
Resolution	16-bit synchronous sampling
Sampling frequency	10.24 kHz at 50/60 Hz, synchronized to mains frequency
Input signal frequency	50/60 Hz (42.5 to 69 Hz)
Circuit types	1- $\Phi$ , 1- $\Phi$ IT, split phase, 3- $\Phi$ delta, 3- $\Phi$ wye, 3- $\Phi$ wye IT, 3- $\Phi$ wye balanced, 3- $\Phi$ Aron/Blondel (2-element delta), 3- $\Phi$ delta open leg, currents only (load studies)
Data storage	Internal flash memory (not user replaceable)
Memory size	Typical 20 logging sessions of 4 weeks with 1-minute intervals and 500 events
Basic Interval	
Measured parameters	Voltage, current, aux, frequency, THD V, THD A, power, power factor, fundamental power, DPF, energy
Averaging interval	User selectable: 1 sec, 5 sec, 10 sec, 30 sec, 1 min, 5 min, 10 min, 15 min, 30 min
Averaging time min/max values	Voltage, Current: Full cycle RMS updated every half cycle (URMS1/2 according to IEC61000-4-30 Aux, Power: 200ms)
Demand Interval (Energy Meter Mode)	
Measured parameters	Energy (Wh, varh, VAh), PF, maximum demand, cost of energy
Interval	User selectable: 5 min, 10 min, 15 min, 20 min, 30 min, off
Power Quality Measurements	
Measured parameter	Voltage, frequency, unbalance, voltage harmonics, THD V, current, harmonics, THD A, TDD, voltage interharmonics, TID V, current interharmonics, TID A, Flicker, Mains Signaling, under/over deviation
Averaging interval	10 min for all parameters 2 hrs (long term Flicker PLT) 150/180 cycles (3 s) for harmonics (requires software license IEEE519/REPORT)
Individual harmonics	2nd to 50th harmonic Grouping according to IEC 61000-4-7 user configurable depending on application: Sub-grouped (harmonics + interharmonics), grouped or harmonic bins only
Interharmonics	1st to the 50th interharmonic
Total harmonic distortion	Calculated on 50 voltage harmonics
Events	Voltage: dips, swells, interruptions, current: inrush current 1748: mains signaling, transients (low frequency)
Triggered recordings	RMS profile: Full cycle RMS updated every half cycle of voltage and current up to 11 s (URMS1/2 according to IEC 61000-4-30)
	Waveform of voltage and current up to 200 ms, 10/12 cycles
	Mains signaling: 10/12 cycle RMS recording of the configured frequencies up to 120s
Inrush	RMS profile based on 1/2 cycle RMS steady state triggering
Flicker	In accordance with IEC 61000-4-15 and IEEE 1453

Mains signaling	Two user defined frequencies up to 3 kHz
PQ Health	Summarizes power quality measurements in one table. Detailed data available for each parameter
EN 50160	Compliance with standard
Programmable PQ limits	Enables user defined limits for local standards compliance
Standards Compliance	
Harmonics	IEC 61000-4-7: Class 1
	IEEE 519 (short time and very short time harmonics)
Power quality	IEC 61000-4-30 Class A, IEC 62586-1, IEC 62586-2 (PQI-A-PI device)
Power	IEEE 1459
Power quality compliance	EN 50160
Safety	General: IEC 61010-1: Pollution Degree 2
	Measurement: IEC 61010-2-033: CAT IV 600 V / CAT III 1000 V
	Power Supply: Overvoltage Category IV, Pollution Degree 2
	Li-ion Battery: IEC 62133
Interfaces	
USB-A	File transfer via USB flash drive, firmware updates, max. supply current: 120 mA
Wi-Fi (free with product registration)	File transfer and remote control via direct connection or Wi-Fi infrastructure
Bluetooth	Read auxiliary measurement data from Fluke Connect® 3000 series modules (requires supported USB to BLE or Wi-Fi/BLE adapter, check for availability)
USB-mini	Data download device to PC
Voltage Inputs	
Number of inputs	4 (3 phases referenced to neutral)
Maximum input voltage	1000 Vrms, CF 1.7
Input impedance	10 MΩ
Bandwidth	42.5 Hz to 3.5 kHz
Scaling	1:1 and variable
Measurement category	1000 V CAT III/600 V CAT IV
Current Inputs	
Number of inputs	4 (3 phases and neutral), mode selected automatically for attached sensor
Input voltage	Clamp input: 500 mVrms/50 mVrms; CF 2.8
	Rogowski coil input: 150 mVrms/15 mVrms at 50 Hz, 180 mVrms/18 mVrms at 60 Hz; CF 4 all at nominal probe range
Range	1 A to 150 A/10 A to 1500 A with thin flexible current probe i17XX-flex1500 IP 24
	3 A to 300 A/30 A to 3000 A with thin flexible current probe i17XX-flex3000 IP 24
	6 A to 600 A/60 A to 6000 A with thin flexible current probe i17XX-flex6000 IP 36
	40 mA to 4 A/0.4 A to 40 A with 40 A clamp i40s-EL

Bandwidth	42.5 Hz - 3.5 kHz
Scaling	1:1 and variable
Auxiliary Inputs	
Number of inputs	2 (Analog with auxiliary adapter, or up to 2 BLE devices simultaneously)
Input range	0 to $\pm 10$ V dc, or 0 to $\pm 1000$ V dc (with optional adapter), 1 reading/s
Scale factor	Format: mx + b (gain and offset) user configurable
Displayed units	User configurable (7 characters, for example, °C, psi, or m/s)
Wireless Bluetooth connection (check for availability)	
Number of inputs	2
Supported modules	Fluke Connect® 3000 series
Acquisition	1 reading/s
Environmental Specifications	
Operating temperature	-25 °C to +50 °C (-13 °F to 122 °F) <sup>1</sup>
Storage temperature	Without battery: -25 °C to +60 °C (-13 °F to 140 °F), with battery: -20 °C to +50 °C (-4 °F to 122 °F)
Operating humidity	IEC 60721-3-3: 3K6:
	-25 °C to +30 °C (-13 °F to +86 °F): $\leq 100$ %
	40 °C (104 °F): 55 %
	50 °C (122 °F): 35 %
Operating altitude	2000 m (up to 4000 m derate to 1000 V CAT II/600 V CAT III/300 V CAT IV)
Storage altitude	12,000 m
Enclosure	IEC 60529: IP50
	IEC 60529: IP65 with IP65 rated voltage connector
Vibration	IEC 60721-3-3 / 3M2
Electromagnetic compatibility (EMC)	EN 61326-1: Industrial CISPR 11: Group 1, Class A
	IEC 61000-6-5 Power station environment
	Korea (KCC): Class A Equipment (industrial broadcasting and communication equipment)
	USA (FCC): 47 CFR 15 subpart B. This product is considered an exempt device per clause 15.103
General Specifications	
Warranty	Two-years (battery not included)
	Accessories: one-year
	Calibration cycle: two-years
Dimensions	23.0 cm x 18.0 cm x 5.4 cm (9.1 in x 7.1 in x 2.1 in)
Weight	Instrument: 1 kg (2.2 lb)
Tamper protection	Accept securing cables (max. $\Phi$ 6mm)



<sup>1</sup>Warm up the product to -10 °C (+14 °F) before you power the unit on

i17XX-FLEX1.5KIP Flexible Current Probe Specifications

Measuring range	1 to 150 A ac/10 to 1500 A ac
Probe cable length	610 mm (24 in)
Probe cable diameter	7.5 mm (0.3 in)
Weight	170 g (0.38 lb)
Minimum bending radius	38 mm (1.5 in)
Nondestructive current	100 kA (50/60 Hz)
Temperature coefficient over operating temperature range	0.05 % of reading/°C (0.028 % of reading/°F)
Working voltage	1000 V CAT III, 600 V CAT IV
Output cable length	2.0 m (6.5 ft)
Probe cable material	TPR
Weight	115 g
Probe cable material	TPR
Coupling material	POM + ABS/PC
Output cable	TPR/PVC
Operating temperature	-20 °C to +70 °C (-4 °F to 158 °F) temperature of conductor under test shall not exceed 80 °C (176 °F)
Temperature, non-operating	-40 °C to +80 °C (-40 °F to 176 °F)
Relative humidity, operating	15% to 85% non-condensing
IP rating	IEC 60529: IP65
Warranty	One-year

## Ordering information



### Fluke-1742/15/EUS

Fluke 1742/15/EUS Power quality logger with 24in/60cm 1,500A iFlex current probes, EU/US Version

Includes:

- Fluke 1742 Logger
- Soft storage bag/case
- Voltage test lead (3-phase + N)
- Alligator clips (blue) (x2)
- Alligator clips (black) (x4)
- Set of cable markers
- Mains power cable
- Mains adapter MA-C8
- Set of 2 test leads (stack and non-stackable, blue, 7 in.)
- Set of 2 test leads (non-stackable, blue, 79 in.)
- USB Cable
- i17xx-flex1500IP 24 inch current probes (x4)
- WiFi/BLE-to-USB Adapter

### Fluke-1742/30/EUS

Fluke 1742/30/EUS Power quality logger with 24in/60cm 3,000A iFlex current probes, EU/US Version

Includes:

- Fluke 1742 Logger
- Soft storage bag/case
- Voltage test lead (3-phase + N)
- Alligator clips (blue) (x2)
- Alligator clips (black) (x4)
- Set of cable markers
- Mains power cable
- Mains adapter MA-C8
- Set of 2 test leads (stack and non-stackable, blue, 7 in.)
- Set of 2 test leads (non-stackable, blue, 79 in.)

- USB cable
  - i17xx-flex3000IP 24 inch current probes (x4)
  - WiFi/BLE-to-USB Adapter
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### **Fluke-1742/B/EUS**

Fluke 1742/B/EUS Power quality logger without iFlex current probes, EU/US Version

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Includes:

- Fluke 1742 Logger
  - Soft storage bag/case
  - Voltage test lead (3-phase + N)
  - Alligator clips (blue) (x2)
  - Alligator clips (black) (x4)
  - Set of cable markers
  - Mains power cable
  - Mains adapter MA-C8
  - Set of 2 test leads (stack and non-stackable, blue, 7 in.)
  - Set of 2 test leads (non-stackable, blue, 79 in.)
  - USB Cable
  - WiFi/BLE-to-USB Adapter
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### **Fluke-1742/15/INTL**

Power quality logger with 24in/60cm 1,500A iFlex current probes, international version

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### **Fluke-1742/30/INTL**

Power quality logger with 24in/60cm 3,000A iFlex current probes, international version

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### **Fluke-1742/B/INTL**

Power quality logger without iFlex current probes, international version

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### **Fluke-1746/15/EUS**

Fluke 1746/15/EUS Power quality logger with 24in/60cm 1,500A iFlex current probes, EU/US version

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Includes:

- Fluke 1746 Logger
  - Soft storage bag/case
  - Voltage test lead (3-phase + N)
  - Alligator clips (blue) (x2)
  - Alligator clips (black) (x4)
  - Set of cable markers
  - Mains power cable
  - Mains adapter MA-C8
  - Set of 2 test leads (stack and non-stackable, blue, 7 in.)
  - Set of 2 test leads (non-stackable, blue, 79 in.)
  - USB Cable
  - Magnet probes (x4)
  - i17xx-flex1500IP 24 inch current probes (x4)
  - WiFi/BLE-to-USB Adapter
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### **Fluke-1746/30/EUS**

Fluke 1746/30/EUS Power quality logger with 24in/60cm 3,000A iFlex current probes, EU/US version

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Includes:

- Fluke 1746 Logger
  - Soft storage bag/case
  - Voltage test lead (3-phase + N)
  - Alligator clips (blue) (x2)
  - Alligator clips (black) (x4)
  - Set of cable markers
  - Mains power cable
  - Mains adapter MA-C8
  - Set of 2 test leads (stack and non-stackable, blue, 7 in.)
  - Set of 2 test leads (non-stackable, blue, 79 in.)
  - USB Cable
  - Magnet probes (x4)
  - i17xx-flex3000IP 24 inch current probes (x4)
  - WiFi/BLE-to-USB Adapter
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### **Fluke-1746/B/EUS**

Fluke 1746/B/EUS Power quality logger without iFlex current probes, EU/US version

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Includes:

- Fluke 1746 Logger
  - Soft storage bag/case
  - Voltage test lead (3-phase + N)
  - Alligator clips (blue) (x2)
  - Alligator clips (black) (x4)
  - Set of cable markers
  - Mains power cable
  - Mains adapter MA-C8
  - Set of 2 test leads (stack and non-stackable, blue, 7 in.)
  - Set of 2 test leads (non-stackable, blue, 79 in.)
  - USB Cable
  - Magnet probes (x4)
  - WiFi/BLE-to-USB Adapter
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### **Fluke-1746/15/INTL**

Power quality logger with 24in/60cm 1,500A iFlex current probes, international version

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### **Fluke-1746/30/INTL**

Power quality logger with 24in/60cm 3,000A iFlex current probes, international version

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### **Fluke-1746/B/INTL**

Power quality logger without iFlex current probes, international version

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### **Fluke-1748/15/EUS**

Fluke 1748/15/EUS Power quality logger with 24in/60cm 1,500A iFlex current probes, EU/US version

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Includes:

- Fluke 1748 Logger
- Soft storage bag/case
- Voltage test lead (3-phase + N)
- Alligator clips (blue) (x2)
- Alligator clips (black) (x4)
- Set of cable markers
- Mains power cable
- Mains adapter MA-C8
- Set of 2 test leads (stack and non-stackable, blue, 7 in.)
- Set of 2 test leads (non-stackable, blue, 79 in.)
- USB Cable
- Magnet hanger kit
- Magnet Probes (x4)
- i17xx-flex1500IP 24 inch current probes (x4)
- WiFi/BLE-to-USB Adapter

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### **Fluke-1748/30/EUS**

Fluke 1748/30/EUS Power quality logger with 24in/60cm 3,000A iFlex current probes, EU/US version

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Includes:

- Logger
- Soft storage bag/case
- Voltage test lead (3-phase + N)
- 2x alligator clips (blue)
- 4x alligator clips (black)
- Set of cable markers
- Mains power cable
- Mains adapter MA-C8
- Set of 2 test leads (stack and non-stackable, blue, 7 in.)
- Set of 2 test leads (non-stackable, blue, 79 in.)
- USB Cable
- Magnet Hanger Kit
- 4x Magnet Probes
- 4x i17xx-flex3000IP 24 inch current probes
- WiFi/BLE-to-USB Adapter

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### **Fluke-1748/B/EUS**

Fluke 1748/B/EUS Power quality logger without iFlex current probes, EU/US Version

---

Includes:

- Fluke 1748 Logger
- Soft storage bag/case
- Voltage test lead (3-phase + N)
- Alligator clips (blue) (x2)
- Alligator clips (black) (x4)
- Set of cable markers
- Mains power cable
- Mains adapter MA-C8
- Set of 2 test leads (stack and non-stackable, blue, 7 in.)
- Set of 2 test leads (non-stackable, blue, 79 in.)
- USB Cable
- Magnet Hanger Kit

- Magnet Probes (x4)
  - WiFi/BLE-to-USB Adapter
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**Fluke-1748/15/INTL**

Power quality logger with 24in/60cm 1,500A iFlex current probes, international version

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**Fluke-1748/30/INTL**

Power quality logger with 24in/60cm 3,000A iFlex current probes, international version

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**Fluke-1748/B/INTL**

Power quality logger without iFlex current probes, international version

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**Fluke.** *Keeping your world up and running.®*

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