

# New Product Announcement



Date: September/October 2015



## The Fluke 1736 and 1738 Three Phase Power Loggers.

**More visibility, reduced uncertainty and better power quality and energy consumption decisions**

The Fluke 1736 and 1738 Three-Phase Power Loggers built with Fluke Connect® mobile app and desktop software compatibility give you the data you need to make critical power quality and energy decisions in real-time. The ideal test tools for conducting energy studies and basic power quality logging, the 1736 and 1738 automatically capture and log over 500 power quality parameters so you have more visibility into the data you need to optimize system reliability and savings.

An optimized user interface, flexible current probes, and an intelligent measurement verification function that allows you to reduce measurement errors by digitally verifying and correcting common connection errors makes setup easier than ever and reduces measurement uncertainty. Access and share data remotely with your team via the Fluke Connect® app so you can maintain safer working distances and make critical decisions in real-time, reducing the need for protective equipment, site visits and check-ins. You can also quickly and easily chart and graph measurements to help identify issues and create detailed reports with the included Fluke Energy Analyze Plus software package.

Model	Users	Model-Specific Applications
Fluke 1736 Three Phase Power Logger	<ul style="list-style-type: none"> <li>• Electrical Technicians</li> <li>• Electrical Contractors</li> <li>• Energy Savings Consultant</li> </ul>	<ul style="list-style-type: none"> <li>• Load studies</li> <li>• Energy Assessments</li> <li>• Harmonics measurements</li> <li>• Voltage event captures</li> </ul>
Fluke 1738 Three Phase Power Logger, <b>available December 2015</b>	<ul style="list-style-type: none"> <li>• Electrical Technicians</li> <li>• Electrical Contractors</li> <li>• Energy Savings Consultant</li> </ul>	<ul style="list-style-type: none"> <li>• Load studies</li> <li>• Energy Assessments</li> <li>• Harmonics measurements</li> <li>• Voltage event captures</li> <li>• Advanced analysis; EN50160 &amp; Waveform Snapshots Optional IEEE519 Total Harmonic Distortion Measurements</li> </ul>

## Product Elevator Pitch

The Fluke 1736 and 1738 are the first three-phase power loggers built with the Fluke Connect® mobile app and software, enabling users to measure, capture and log all relevant characteristics of electric power and enable access to management and analysis of large data sets. The 1736 and 1738 provide you with:

### **More visibility**

Automatically capture and log over 500 power quality parameters so you have the data you need, when you need it, helping you to optimize system reliability and savings.

### **Reduced Uncertainty**

Visibility through Fluke Connect enables users to view collected data to ensure the data being collected is correct, either at the panel or remotely. By powering the logger directly from the measured line and the intelligent verification function that digitally corrects common connection issues measurement system errors are significantly reduced.

### **Better Decisions making capabilities**

Access and share data remotely via the Fluke Connect® app so you can maintain safer working distances and make critical decisions in real-time, reducing the need for protective equipment, site visits and check-ins. Quickly and easily chart and graph measurements to help identify issues and create detailed reports with Fluke Energy Analyze Plus software.

## Features / Benefits – See datasheet or [www.fluke.com/powerquality](http://www.fluke.com/powerquality) for complete list

- **Key measurements:** Simultaneously measure and log voltage, current, power, harmonics and associated values enabling you to optimize and implement your energy saving strategies
- **Measure all three phases and neutral** with included 4 flexible current probes
- **Connectivity as you've never experienced before on a portable power logger.** View data locally on the instrument, via the Fluke Connect™ App or through the facility's WiFi infrastructure.
- **Comprehensive logging:** More than 20 separate logging sessions can be stored on the instruments. In fact, all measured values are automatically logged so you never lose measurement trends. They can even be reviewed during logging sessions and before downloading for on-the-go analysis.
- **Capture Dips and Swells:** includes event waveform snapshot, along with date, timestamp and severity to help pinpoint potential root causes of power quality issues
- **Bright, color touch screen:** Perform convenient in-the-field analysis and data checks with full graphical display.
- **Optimized user interface:** Capture the right data every time with quick, guided, graphical setup and reduce uncertainty about your connections with the intelligent verification function.
- **Complete "in-the-field" setup through the front panel or Fluke Connect™ App:** no need to return to the workshop for download and setup or to take a computer to the electrical panel.
- **Convenient instrument powering:** power instrument directly from the measured circuit eliminating the need to find a power outlet while allowing the instrument to be secured safely inside electrical panels.

- **Fully Integrated Logging.** Connect other Fluke Connect™ devices to the Fluke 1738 to simultaneous log up to two other parameters, virtually any parameter available on Fluke Connect enabled digital multimeters.
- **Two USB ports:** one for PC connection and another for quick, simple data download to standard USB thumb drives, or other USB devices allowing you to leave the measurement device in place without disrupting logging.
- **Compact size:** designed to fit in tight spaces and panels.
- **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:** 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.
- **Security:** safeguard your best asset from theft with an optional hefty, durable Kensington lock.
- **Power Quality Analyze application software:** Download and analyze every detail of energy consumption and power quality state of health with our automated reporting.

For the full specifications of parameters for the Fluke 1736 consult the datasheet (6006033).

Meter Mode	RMS Power	Fundamental Power
Voltage (V) Current (A) Frequency (Hz) THD of Voltage and Current (%) AUX Voltage (V)	Active Power (P) in W Apparent power (S) in VA Reactive power (D) in var Power factor (PF) Energy (kWh)	Fundamental Active Power in W Fundamental Reactive Power in var Fundamental Apparent Power in VA Displacement Power Factor (DPF) / $\cos \varphi$ Energy (kWh)

### Questions You May Encounter

**Question:** How does the 1736 differ from the 1738?

**Answer:** The 1738 includes advanced limit based analysis (uses EN510160 limits), the capability to connect two Fluke Connect® devices for logging of supplementary parameters and a WiFi / Bluetooth (BLE) dongle (check for availability in your region)

**Question:** How does the 1736/1738 differ from the 1730?

**Answer:** The Fluke 1736 and 1738 have more power quality measurement capability. The Fluke 1730 is a pure energy logger; this functionality is a subset of the Fluke 1736/1738. For users performing both basic power quality studies and energy studies, the 1736/1738 enables users to measure, capture and log all relevant characteristics of electric power and enables access to management and analysis of large data sets.

**Question:** How can I connect the Fluke Connect® app wirelessly to Fluke 1736 and 1738?

**Answer:** With the 1736, a PC to instrument connection is made by WiFi. For the 1738 the connection can either be WiFi or BLE connection. Users can connect their instrument to a WiFi router infrastructure by enabling the feature when they register their instrument. When they register they will get a

registration code to enable the function. Users can then connect from anywhere the router is accessible.

**Question:** When would I use a Fluke 434-II or Fluke 435-II instead?

**Answer:** If you're looking for complete power quality analysis the Fluke 434-II provide in-depth analysis, including a broad range of unbalance data, power harmonics, interharmonics and an energy loss calculator. Additionally the Fluke 435-II offers high speed transient capture (200 kHz sampling), deep memory waveform storage (PowerWave), mains signaling, and is fully Class A compliant with IEC61000-4-30.

**Question:** When should the user order the Fluke 1736/BASIC or 1738/B?

**Answer:** When they need to measure current above 1,500A or measure on larger conductors. The Fluke 1730/BASIC is configured with the needs of specialist users in mind. It is delivered without current measurement accessories; the user needs to specify the current accessories they prefer for their application or situation.

**Question:** What accessories would you recommend that I buy with the Fluke 1736 and 1738?

**Answer:** For the 1736, the hanger kit and magnetic voltage probes are a must have, it makes installing so much easier. Additionally for the 1736 the upgrade kit allows users to fully upgrade their 1736 to a 1738 with all the functionality and accessories included with 1738. The auxiliary input cable is very useful if you want to log other parameters like temperature along with energy and if you have a wide variety of circuit types and sizes, additional current probes will be most helpful. If users are planning to fully integrate their measurements they can also buy FC3000 modules which can connect to the 1738 and log those measured values.

#### **Discount Structure**

- Follows same discount as the Fluke 1735 mainframe and accessories discounts. Comes under HTP category and the current functional discount of 1735 is applicable.

#### **Ordering Information**

##### **Fluke 1736 and 1738 Standard Models**

<b>Item Number</b>	<b>Description</b>	<b>US List Price</b>
4534519	FLUKE-1736/EUS, 3-PHASE ENERGY LOGGER, EU/US VERSION	\$4,799.99
4563550	FLUKE 1736/INTL, 3-PHASE ENERGY LOGGER, INTERNATIONAL VERSION	\$4,799.99

4563561	FLUKE 1736/B, 3-PHASE ENERGY LOGGER, BASIC VERSION	\$4,499.99
4563577	FLUKE-1738/EUS, 3-PHASE ENERGY LOGGER, EU/US ADVANCED VERSION	\$5,499.99 <b>Shipping Dec. 2015</b>
4588378	FLUKE-1738/B, 3-PHASE ENERGY LOGGER, ADVANCED VERSION NO FLEXIS	\$4,499.99 <b>Shipping Dec. 2015</b>
4588384	FLUKE 1738/INTL, 3-PHASE ENERGY LOGGER, INTERNATIONAL ADVANCED VERSION	\$5,199.99 <b>Shipping Dec. 2015</b>

### Fluke Accessories

Item Number	Description	US List Price
4637328	FLUKE-17xx iFlexi 1500A 12 IN	179.99
4637343	FLUKE-17xx iFlexi 3000A 24 IN	199.99
4637362	FLUKE-17xx iFlexi 6000A 36 IN	199.99
4637337	FLUKE-17xx iFlexi 1500A 12 IN, 3 pack	499.99
4637355	FLUKE-17xx iFlexi 3000A 24 IN, 3 pack	499.99
4637370	FLUKE-17xx iFlexi 6000A 36 IN, 3 pack	599.99
4637396	FLUKE-17xx i40s-EL Clamp-on Current Transformer	249.99
4637409	FLUKE-17xxx i40s-EL Clamp-on Current Transformer, 3 pack	699.99
4637381	FLUKE-17xx Soft Case	129.99
4637411	FLUKE-17xx IFLEXi 1500A 12 IN, 4 PACK	669.99
4637427	FLUKE-17xx IFLEXi 3000A 24 IN, 4 PACK	669.99
4637430	FLUKE-17xx IFLEXi 6000A 36 IN, 4 PACK	799.99
4563589	UPGRADE KIT FOR 1736 TO 1738	699.99 <b>Shipping Dec. 2015</b>
4589220	MAGNET PROBES FOR 4MM BANANA, SET OF 4	99.99
4591273	DONGLE TO USB ADAPTER, WIFI/BLE	199.99
4717827	AUX input adapter, 173X	69.99

## **Package Contents**

### ***Fluke-1736 includes:***

Instrument, power supply, voltage test leads, Alligator clips (4x), 12 in 1,500A flexible current probe (4x), Soft case, Energy Analyze Software, WiFi adapter\*\*, line cords, color coding set and documentation on USB flash drive

### ***Fluke 1738 includes:***

Instrument, power supply, voltage test leads, Alligator clips (4x), 12 in 1,500A flexible current probe (4x), Soft case, Energy Analyze Software, magnetic hanging strap, magnetic voltage probes (4x), WiFi / BLE adapter\*\*, line cords, color coding set and documentation on USB flash drive.

\*\* /B and /INTL versions do not include this item.

## Dimensions

<b>Fluke 1736/1738 Standard Models</b>								
<b>Description</b>	<b>Weight (kg)</b>	<b>Weight (lbs)</b>	<b>Length (mm)</b>	<b>Width (mm)</b>	<b>Height (mm)</b>	<b>Length (in)</b>	<b>Width (in)</b>	<b>Height (in)</b>
FLUKE-1736/EUS, 3-PHASE POWER LOGGER, EU/US VERSION	4.8	10.5	405	295	240	15.9	11.6	9.4
FLUKE 1736/INTL, 3-PHASE POWER LOGGER, INTERNATIONAL VERSION	4.8	10.5	405	295	240	15.9	11.6	9.4
FLUKE 1736/B, 3-PHASE POWER LOGGER, BASIC VERSION	4.8	10.5	405	295	240	15.9	11.6	9.4
FLUKE-1738/EUS, 3-PHASE POWER LOGGER, EU/US ADVANCED VERSION	4.8	10.5	405	295	240	15.9	11.6	9.4
FLUKE-1738/B, 3-PHASE POWER LOGGER, ADVANCED VERSION NO FLEXIS	4.8	10.5	405	295	240	15.9	11.6	9.4
FLUKE 1738/INTL, 3-PHASE POWER LOGGER, INTERNATIONAL ADVANCED VERSION	4.8	10.5	405	295	240	15.9	11.6	9.4
<b>Fluke 1736/1738 Accessories</b>								
<b>Description</b>	<b>Weight (kg)</b>	<b>Weight (lbs)</b>	<b>Length (mm)</b>	<b>Width (mm)</b>	<b>Height (mm)</b>	<b>Length (in)</b>	<b>Width (in)</b>	<b>Height (in)</b>
FLUKE-17xx iFlexi 1500A 12 IN	0.23	0.50	150	150	25	5.9	5.9	0.98
FLUKE-17xx iFlexi 3000A 24 IN	0.27	0.60	180	180	25	7.0	7.0	0.98
FLUKE-17xx iFlexi 6000A 36 IN	0.32	0.70	210	210	25	8.25	8.25	0.98
FLUKE-17xx iFlexi 1500A 12 IN, 3 pack	0.7	1.50	150	150	25	5.9	5.9	0.98
FLUKE-17xx iFlexi 3000A 24 IN, 3 pack	0.82	1.80	180	180	25	7.0	7.0	0.98
FLUKE-17xx iFlexi 6000A 36 IN, 3 pack	0.91	2.00	210	210	25	8.25	8.25	0.98
FLUKE-17xx i40s-EL Clamp-on Current Transformer	0.3	0.66	220	100	25	4.7	4	0.98
FLUKE-17xx i40s-EL Clamp-on Current Transformer, 3 pack	0.91	2.00	220	100	25	4.7	4	0.98
FLUKE-17xx Soft Case	0.17	0.37	370	260	220	14.5	10.2	8.65
FLUKE-17xx iFLEXi 1500A 12 IN, 4 PACK	0.91	2.00	150	150	4.75	5.9	5.9	0.98

FLUKE-17xx iFLEXi 3000A 24 IN, 4 PACK	1.19	2.40	150	150	4.75	5.9	5.92	0.98
FLUKE-17xx iFLEXi 6000A 36 IN, 4 PACK	1.27	2.80	149.5	149.5	4.7	5.88	5.88	0.98
FLUKE-1736/UPGRADE	0.45	1	149.4	149.4	4.7	5.88	5.88	0.98
MP1-MAGNET PROBE 1	0.006	0.12	110	69.75	39.85	4.3	2.75	1.57
FLK-WIFI/BLE	0.025	0.05	150	89.7	299	5.9	3.53	1.18
FLUKE-173X ADPT	0.55	0.12	2220	155	55	8.65	6.1	2.16
3PHVL-1730	0.21	0.45	120	120	40	4.7	4.7	1.6
Fluke-1730-Cable	0.07	0.15	150	150	20	5.9	5.9	0.8
Fluke-17XX Soft Case	1.32	0.37	370	260	220	14.5	10.2	8.6



Power Loggers						
Item Number	UPC Codes	Description	Warranty	Harmonized Code	ECCN	Country of Origin
4534519	0 95969 75849 9	FLUKE-1736/EUS	2	9030.39.0100	3A992	Romania
4563561	0 95969 77252 5	FLUKE 1736/B	2	9030.39.0100	3A992	Romania
4563577	0 95969 77253 2	FLUKE-1738/EUS	2	9030.39.0100	3A992	Romania
4588378	0 95969 77885 5	FLUKE-1738/B	2	9030.39.0100	3A992	Romania
4563550	0 95969 77251 8	FLUKE 1736/INTL	2	9030.39.0100	3A992	Romania
4710159	0 95969 80324 3	FLUKE-1736/WINTL	2	9030.39.0100	3A992	Romania
4588384	0 95969 77886 2	FLUKE-1738/INTL	2	9030.39.0100	3A992	Romania
4710209	0 95969 80329 8	FLUKE-1738/WINTL	2	9030.39.0100	3A992	Romania
Accessories						
4637328	0 95969 78666 9	FLUKE-17xx iFlexi 1500A 12 IN	1	9030908831	EAR99	Bulgaria
4637343	0 95969 78668 3	FLUKE-17xx iFlexi 3000A 24 IN	1	9030908831	EAR99	Bulgaria
4637362	0 95969 78670 6	FLUKE-17xx iFlexi 6000A 36 IN	1	9030908831	EAR99	Bulgaria
4637337	0 95969 78667 6	FLUKE-17xx iFlexi 1500A 12 IN, 3 pack	1	9030908831	EAR99	Bulgaria
4637355	0 95969 78669 0	FLUKE-17xx iFlexi 3000A 24 IN, 3 pack	1	9030908831	EAR99	Bulgaria
4637370	0 95969 78671 3	FLUKE-17xx iFlexi 6000A 36 IN, 3 pack	1	9030908831	EAR99	Bulgaria
4637396	0 95969 78673 7	FLUKE-17xx i40s-EL Clamp-on Current Transformer	1	9030908831	EAR99	Romania
4637409	0 95969 78674 4	FLUKE-17xxx i40s-EL Clamp-on Current Transformer, 3 pack	1	9030908831	EAR99	Romania
4637381	0 95969 78672 0	FLUKE-17xx Soft Case	1	4202929026	EAR99	China
4637411	0 95969 78675 1	FLUKE-17xx IFLEXi 1500A 12 IN, 4 PACK	1	9030908831	EAR99	Bulgaria
4637427	0 95969 78676 8	FLUKE-17xx IFLEXi 3000A 24 IN, 4 PACK	1	9030908831	EAR99	Bulgaria

4637430	0 95969 78677 5	FLUKE-17xx IFLEXi 6000A 36 IN, 4 PACK	1	9030908831	EAR99	Bulgaria
4563589	0 95969 77254 9	FLUKE- 1736/UPGRADE	1	TBA	EAR99	Romania
4589220	0 95969 77904 3	MP1-MAGNET PROBE 1	1	8536.90.4000	EAR99	Slovakia
4591273	0 95969 77925 8	FLK-WIFI/BLE	1	8517.62.00	EAR99	TW
4717827	0 95969 80609 1	FLUKE-173X ADPT	1	8544.42.9090	EAR99	Bulgaria

### Delivery Schedule

- ATP: 2-4 weeks at launch.

### Marketing Communications

Asset Number	Pub ID	Description	Format
6006033	13485	Fluke 1736 and 1738 Power Logger Data Sheet	PDF
6006029	N/A	Print Advertisement	PDF
N/A	N/A	Launch Email	HTML
6006035	N/A	Internal fluke.com web banners	JPG
6006034	N/A	External web banners	JPG
6006066	N/A	Launch landing page	HTML
6006030	13471	30 day load studies with Fluke Power and Energy Loggers – Application Note	PDF
6006032	13472	6 Things you need to do before making power quality measurements – Application Note	PDF
6006031	13473	4 Steps to take after power quality data has been collected – Application Note	PDF
6006093	13484	Harmonics Standards: What are they and how can you use them? – Application Note	PDF
6006094	N/A	Fluke 1736 and 1738 overview video	MP4
6006095	N/A	Getting to know the Fluke 1738 hardware video	MP4
6006096	N/A	Getting to know Energy Analyze Plus Software video	MP4
N/A	N/A	Product Photography	JPG
N/A	N/A	Product page on <a href="http://www.fluke.com">www.fluke.com</a>	WEB

Should you have any questions regarding this product announcement, please contact us.

#### **Distributed By:**

**Signal Test, Inc**

**1529 Santiago Ridge Way**

**San Diego, CA 92154**

**Tel. 1-619-575-1577 USA**

**[www.SignalTestInc.com](http://www.SignalTestInc.com)**

**[Sales@SignalTestInc.com](mailto:Sales@SignalTestInc.com)**

