Fluke 1736 and 1738 Three-Phase Power Loggers

KEY MEASUREMENTS

Automatically capture and log voltage, current, power, harmonics and associated power quality values

FLUKE CONNECT® COMPATIBLE*

View data locally on the instrument, via Fluke Connect mobile app and desktop software or through your facilities' WiFi infrastructure.

CONVENIENT INSTRUMENT POWERING

Power instrument directly from the measured circuit

HIGHEST SAFETY RATING IN THE INDUSTRY

600 V CAT IV/1000 V CAT III rated for use at the service entrance and downstream

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.

- **Measure all three phases and neutral** with included 4 flexible current probes.
- **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 loose measurement trends. They can even be reviewed during logging sessions and before downloading for real-time analysis.
- **Capture dips, swells, and inrush currents:** includes event waveform snapshot and high resolution RMS profile, 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.

*Not all models are available in all countries. Check with your local Fluke representative.

Environmental specifications

Operating temperature	–10 °C to +50 °C (14 °F to 122 °F)
Storage temperature	–20 °C to +60 °C (–4 °F to 140 °F), with battery: –20 °C to +50 °C (–4 °F to 122 °F)
Operating humidity	10 °C to 30 °C (50 °F to 86 °F) max. 95 % RH 30 °C to 40 °C (86 °F to 104 °F) max. 75 % RH 40 °C to 50 °C (104 °F to 122 °F) max. 45 % RH
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	IP50 in accordance with EN60529
Vibration	MIL-T-28800E, Type 3, Class III, Style B

Safety	IEC 61010-1
	  IEC Mains Input: Overvoltage Category II, Pollution Degree 2
	  Voltage Terminals: Overvoltage Category IV, Pollution Degree 2
	
	IEC 61010-2-031: CAT IV 600 V / CAT III 1000 V

Electromagnetic compatibility (EMC)	EN 61326-1: Industrial CISPR 11: Group 1, Class A 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
Temperature coefficient	0.1 x accuracy specification/°C

General specifications

Color LCD display	4.3-inch active matrix TFT, 480 pixels x 272 pixels, resistive touch panel
Warranty	Instrument and power supply: Two-years (battery not included) Accessories: one-year Calibration cycle: two-years
Dimensions	Instrument: 19.8 cm x 16.7 cm x 5.5 cm (7.8 in x 6.6 in x 2.2 in) Power supply: 13.0 cm x 13.0 cm x 4.5 cm (5.1 in x 5.1 in x 1.8 in) Instrument with power supply attached: 19.8 cm x 16.7 cm x 9 cm (7.8 in x 6.6 in x 3.5 in)
Weight	Instrument: 1.1 kg (2.5 lb) Power supply: 400 g (0.9 lb)
Tamper protection	Kensington lock slot

Model features

	1736 Power Logger			1738 Power Logger		
	FLUKE-1736/B	FLUKE-1736/EUS	FLUKE-1736/INTL	FLUKE-1738/B	FLUKE-1738/EUS	FLUKE-1738/INTL
Model	Power logger basic version	Power logger (EU and US)	Power logger (International)	Power logger advanced version	Power logger advance version (EU and US)	Power logger advanced version (International)
Functions						
PQ Health (EN50160 analysis)	Opt.	Opt.	Opt.	•	•	•
IEEE 519 reporting	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.
Fluke Connect® module support (up to 2 modules**)	Opt.	Opt.	Opt.	•	•	•
Recording						
Trend	•	•	•	•	•	•
Waveform Snapshots + RMS profile	Opt.	Opt.	Opt.	•	•	•
Communication						
USB (mini B)	•	•	•	•	•	•
WiFi download of instrument data	•	•	Opt.	•	•	Opt.
WiFi download via WiFi access point (requires registration)**	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.
Included Accessories						
WiFi only adapter**	–	•	–	–	–	–
WiFi and BLE adapter**	Opt.	Opt.	Opt.	Opt.	•	Opt.
USB flash drive (4GB)	•	•	•	•	•	•
USB Cable	•	•	•	•	•	•
3PHVL-173 Flat Cable	•	•	•	•	•	•
1x red, 1x black 0.1m cable	•	•	•	•	•	•
1x red, 1x black 1.5m lead	•	•	•	•	•	•
Alligator clips	4	4	4	4	4	4
C173x Soft Case	•	•	•	•	•	•
Color Coding set	•	•	•	•	•	•
173x-Hanger kit	Opt.	Opt.	Opt.	•	•	•
MP1-Magnet Probe	Opt.	Opt.	Opt.	4	4	4
i173X-flex1500 12"	Opt.	4	4	Opt.	4	4
Line cord	EU, UK, US, AU, BR	EU, US, UK	EU, UK, US, AU, BR	EU, UK, US, AU, BR	EU, US, UK	EU, UK, US, AU, BR
Compatible Optional Accessories						
173X- AUX analog adapter	•	•	•	•	•	•
i17XX-flex1500 12" Current Probe	•	•	•	•	•	•
i17XX-flex3000 24" Current Probe	•	•	•	•	•	•
i17XX-flex6000 36" Current Probe	•	•	•	•	•	•
i40s-EL Current Clamp	•	•	•	•	•	•
IEEE 519 reporting opt	•	•	•	•	•	•
1736 to 1738 upgrade (1736/UPGRADE)	•	•	•	–	–	–

* Modules not included

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Ordering information**

FLUKE-1736/B Power Logger, Basic version (excludes current probes)
FLUKE-1736/EUS Power Logger, EU and US version (includes current probes)
FLUKE-1736/INTL Power Logger, International version (includes current probes)
FLUKE-1736/WINTL Power Logger, International wireless version (includes current probes)
FLUKE-1738/B Power Logger, Advanced version (excludes current probes)
FLUKE-1738/EUS Power Logger, EU/US Advanced version (includes current probes)
FLUKE-1738/INTL Power Logger, International advanced version (includes current probes)
FLUKE-1738/WINTL Power Logger, International wireless version (includes current probes)

Fluke-1736 includes:
Instrument, power supply, voltage test leads, alligator clips (4x), 12 in 1,500A flexible current probe (4x), soft case, Energy Analyze Plus 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 Plus software, magnetic hanging strap, magnetic voltage probes (4x), WiFi/BLE adapter**, line cords, color coding set and documentation on USB flash drive

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See it. Save it. Share it. All the facts, right in the field.

Fluke Connect® with ShareLive™ video call is the largest system of software and wireless test tools that lets you stay in contact with your entire team without leaving the field*. The Fluke Connect software is compatible with the following devices: iPhone models 4S and up running iOS 8.0 or higher, iPad Air and iPad Mini (2nd generation) in an iPhone frame on iPad and iPod Touch (5th generation), HTC One and One M8 running Android 4.4.x or higher, LG G3 and Nexus 5 running Android 4.4.x or higher, Samsung Galaxy S4 running Android 4.3.x or higher, Samsung Galaxy S5 running Android 4.4.x or higher and works with over 30 different Fluke products—the largest system of connected test tools in the world. And more are on the way. Go to the Fluke website to find out more

*Within provider's wireless service area.

Download the app at:

Smartphone wireless service and data plan not included with purchase.

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