



**FLUKE®**

Fluke 173X, 174X, and 177X Series

# Power Quality Analyzer and Energy Logger Accessories Guide

### Unlock the Full Potential of Your Tool

Maximize the performance and versatility of your Fluke Power Quality Analyzers and Energy Loggers with our comprehensive range of genuine Fluke accessories. Whether you're a seasoned professional or new to power quality analysis, choosing the right accessories can make all the difference in achieving accurate, reliable measurements in diverse electrical environments.

Fluke accessories are specifically engineered to work seamlessly with our instruments, delivering the same high standards of precision, durability, and reliability that Fluke is known for. From current probes and voltage test leads to wireless adapters and protective cases, our accessories are designed to extend the functionality of your tools, enabling you to tackle complex measurement tasks with confidence and ease.

This guide is your go-to resource for exploring the range of accessories available for Fluke Power Quality tools. It provides details on function, application, and compatibility with 173X, 174X, and 177X instruments, ensuring you can make informed decisions when selecting accessories for your specific needs. This guide can help you unlock the full potential of Fluke instruments with the right accessories.


















### Compatibility

- 173X refers to: 1732, 1734, 1736, and 1738 devices
- 174X refers to: 1742, 1746, and 1748 devices
- 177X refers to: 1773, 1775, and 1777 devices
- All refers to: All devices listed above

Product availability may vary by region.  
Product images not shown to scale.

### Test Leads and Probes

Leads	Model	Compatibility	Function and Key Specifications
 Three Phase Voltage Leads	3PHVL-17XX	All	Voltage measurement lead set. 3 Phase + Neutral. 4mm safety plugs. - CAT IV 600V, CAT III 1000V - Lead Length: 2m (6.5')
 Three Phase Voltage Leads - 5 meter	3PHVL-17XX-5M	All	Voltage measurement lead set. 3 Phase + Neutral. 4mm safety plugs. - CAT IV 600V, CAT III 1000V - Lead Length: 5m (16.4')
 Stacking Leads Blue - 7 inch	FLUKE-17XX-TL	All	Blue test leads. One end stacking, one end non-stacking. 4mm safety plugs. - CAT IV 600V, CAT III 1000V - Lead Length: 0.18m (7")
 Non-Stacking Blue Leads - 2 meter	FLUKE-17XX-TL 2M	All	Blue non-stacking test leads with set of blue alligator clips. 4mm safety plugs. - CAT IV 600V, CAT III 1000V - Lead Length: 2m (6.5')
 Test Lead Set	TLS430	All	4 black leads and 1 green lead with 4 black alligator clips and 1 green. 4mm safety plugs. - CAT IV 600V, CAT III 1000V - Lead Length: 2.5m (8.2')
 IP65 Voltage Adapter for 174X	IP65 ADAPTER SET	174X only	IP65 rated, 6 pole voltage connector with 6 leads for connection of voltage and instrument power. For use with 174X. Set includes 2 x alligator clips, 2 x couplers and 1 x white cable market set. - IP65 - CAT IV 600V, CAT III 1000V - Lead Length: 2.5m (8.2')
Probes	Model	Compatibility	Function and Key Specifications
 Fused Test Probe Set with Test Leads	FTPL-1	All	Test probe set with built-in, replaceable, fuses for added protection. Includes set of TL224 SureGrip™ Insulated Test Leads. - CAT IV 600V, CAT III 1000V
 Magnet Probes - Black	MP1-MAGNET PROBE 1	All	Magnetic probe tips for voltage test leads with 4mm banana connectors. 4 black probe tips. - CAT IV 600V, CAT III 1000V
 Magnet Probes - 3 Red, 1 Black	MP1-3R/1B	All	Magnetic probe tips for voltage test leads with 4mm banana connectors. 3 red and 1 black probe tip. - CAT IV 600V, CAT III 1000V
 Fluke Fused Test Probe Set	FTP17XXPQ	All	Set includes 4 x fused probes (FTP-1), 4 x 4mm adapters, 4 x alligator clips (AC285). - CAT IV 600V, CAT III 1000V (with adapters installed)
 Bucktooth Alligator Clip Set	AC173	All	One pair (red, black) slide-on alligator clips with flexible boot. Compatible with 4mm banana plugs. - CAT IV 600V, CAT III 1000V (with adapters installed) - Clip Opening: 8mm (0.31")
 Large Alligator Clip Set	AC285	All	One pair (red, black) large SureGrip™ alligator clips with insulated, nickel-plated steel jaws. Multi-purpose tooth pattern grips from fine gauge wire to a 20mm (0.78") bolt. Compatible with 4mm banana plugs. - CAT IV 600V, CAT III 1000V
 Bus Bar Clip Set	AC87	All	One pair (red, black) flat, right angle clips designed for connecting to bus bars. Compatible with 4mm banana plugs. - CAT III 600V - Clip Opening: 30mm (1.18")
 Retractable Alligator Clip Set	AC220	All	One pair (red, black) of small, insulated, nickel-plated jaws. Blunt tip grabs round screw heads up to 9.5mm (0.37"). Compatible with 4mm banana plugs. - CAT IV 600V, CAT III 1000V - Clip Opening: 9.5mm (0.37")
 Terminal Block Probe Set	AC288	All	One pair (red, black) of retractable SureGrip™ probes for terminal blocks. Able to reach deep connection points. Compatible with 4mm banana plugs. - CAT IV 600V, CAT III 1000V - Probe Length: 11.5cm (4.5") - Probe Tip Length: 8.4mm (0.33")

## Flexible Current Clamps

Fluke 17XX iFlex™ current clamps. Thin flexible design provides ease of use in tight spaces. Connects directly to 173X, 174X and 177X instruments.


### Available in:


- 12, 18, 24, and 36 inch clamp head lengths (30.5, 45.5, 61, 91.5 cm)
- 1500A, 3000A and 6000A current ratings
- Single, three and four packs
- Regular and IP65 rated (IP65 rating only obtained when connected to 174X instruments)

### All iFlex™ Current Clamps:

- CAT IV 600V, CAT III 1000V
- Output Cable Length 2m (6.6')

	1500A Flexible AC Current Clamp Range: 1A - 1500A AC	Compatibility	Model
	12 Inch	All	Single: I17XX-FLEX1500 Three-pack: I17XX-FLEX1500/3PK Four-pack: I17XX-FLEX1500/4PK
	12 Inch - IP65	All	Single: I17XX-FLEX1.5K-12IP Three-pack: I17XX-FLEX1.5K-12IP3 Four-pack: I17XX-FLEX1.5K-12IP4
	18 Inch	All	Single: I17XX-FLEX1500/18
	24 Inch	All	Single: I17XX-FLEX1500/24
	24 Inch - IP65	All	Single: I17XX-FLEX1.5KIP Three-pack: I17XX-FLEX1.5KIP/3PK Four-pack: I17XX-FLEX1.5KIP/4PK











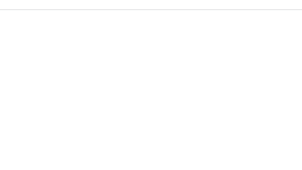
	3000A Flexible AC Current Clamp Range: 3A - 3000A AC	Compatibility	Model
	24 Inch	All	Single: I17XX-FLEX3000 Three-pack: I17XX-FLEX3000/3PK Four-pack: I17XX-FLEX3000/4PK
	24 Inch - IP65	All	Single: I17XX-FLEX3KIP Three-pack: I17XX-FLEX3KIP/3PK Four-pack: I17XX-FLEX3KIP/4PK

	6000A Flexible AC Current Clamp Range: 6A - 6000A AC	Compatibility	Model
	36 Inch	All	Single: I17XX-FLEX6000 Three-pack: I17XX-FLEX6000/3PK Four-pack: I17XX-FLEX6000/4PK
	36 Inch - IP65	All	Single: I17XX-FLEX6KIP Three-pack: I17XX-FLEX6KIP/3PK Four-pack: I17XX-FLEX6KIP/4PK

### Clamp Dimensions

12 inch	18 inch	24 inch	36 inch
Head Length: 305mm (12")	Head Length: 457mm (18")	Head Length: 609mm (24")	Head Length: 914mm (36")
Maximum Conductor Diameter: 97mm (3.8")	Maximum Conductor Diameter: 145.5mm (5.7")	Maximum Conductor Diameter: 194mm (7.6")	Maximum Conductor Diameter: 291mm (11.4")

## Rigid Current Clamps

	Clamp	Model	Compatibility	Function and Key Specifications
	i40s-EL - AC 40A Current Clamp	Single i40s-EL3X	All	Suitable for making measurements up to 40A. Also measures accurately on 1A and 5A secondary current transformers. - Range: 40mA - 40A AC - CAT IV 300V, CAT III 600V - Max Conductor Diameter: 15mm (.59") - Output Cable Length: 2.5m (8.2')
		Three-pack i40s-EL3X/3PK		
	i400s-EL - AC 400A Current Clamp	Single FLUKE-i400s-EL	All	AC current clamp for measurements up to 400A. Compatible with 173X, 174X and 177X instruments. - Range: 400mA - 400A AC - CAT IV 300V, CAT III 600V - Max Conductor Diameter: 32mm (1.2") - Output Cable Length: 2m (6.6')
		Three-pack FLUKE-i400s-EL-3PK		
	80i-2010s - AC/DC 2000A Current Clamp	Single 80i-2010s	All	Measure up to 2,000A AC and/or DC on large conductors. DC measurements only supported on 177X. - Range: Up to 2000A AC/DC - CAT IV 600V, CAT III 1000V - Max Conductor Diameter: 52mm (2") - Output Cable Length: 1.5m (4.9')
		Three-pack 80i2010s/3PK		
	i200s - AC 200A Current Clamp	i200s	All	Dual range 20A and 200A AC current clamp. - Range: 0.1A - 200A AC - CAT III 600V - Max Conductor Diameter: 20mm (.78") - Output Cable Length: 2m (6.6')
	i30s - AC/DC Current Clamp	i30s	All	Based on Hall effect technology, this battery-powered clamp measures both AC and DC current. DC measurements only supported on 177X. - Range: 30mA - 20A AC / 30mA - 30A DC - CAT III 300V - Max Conductor Diameter: 19mm (.75") - Output Cable Length: 2m (6.6')
	i5s - AC 5A Current Clamp	Single i5s	All	Compact 5A AC current clamp, specially designed for low-current accuracy while taking measurements on secondary current transformers. - Range: 10mA - 5A AC - CAT III 600V - Max Conductor Diameter: 15mm (.59") - Output Cable Length: 2.5m (8.2')
		Three-pack i5sPQ3		
	i1000s - AC 1000A Current Clamp	i1000s	All	Large AC current clamp, ideal for measuring distorted current waveform RMS and harmonics. - Range: 0.1A - 1000A AC - CAT III 600V - Max Conductor Diameter: 54mm (2.12") - Output Cable Length: 1.6m (5.2')
	i3000s - AC 3000A Current Clamp	i3000s	All	Very large AC current clamp for conductors up to 64 x 100mm (2.5 x 3.94"). - Range: 1A - 3000A AC - CAT III 600V - Max Conductor Diameter: 64 x 100mm (2.5 x 3.94") - Output Cable Length: 1.6m (5.2')
	i310s - AC/DC Current Clamp	i310s	All	Based on Hall effect technology, this battery-powered clamp measures both AC and DC current. DC measurements only supported on 177X. - Range: 0.1A - 300A AC / 0.1A - 450A DC - CAT III 300V - Max Conductor Diameter: 19mm (.75") - Output Cable Length: 2m (6.6')
	i400s - AC 400A Current Clamp	i400s	All	High safety, compact AC current clamp. - Range: 0.5A - 400A AC - CAT IV 600V, CAT III 1000V - Max Conductor Diameter: 32mm (1.25") - Output Cable Length: 2m (6.6')
	80i-110s - AC/DC Current Clamp	80i-110s	All	For use with Power Quality Analyzers and ScopeMeters. Accurately measures current waveforms. DC measurements only supported on 177X. - Range: 0.1A - 100A AC/DC - CAT III 300V - Max Conductor Diameter: 11.8mm (.46") - Output Cable Length: 1.6m (5.2')

\* Firmware updates may be required for support of adapters. DC only supported on 177X instruments.

### Cable Adapters and Upgrades

Adapter	Model	Compatibility	Function and Key Specifications
	1 Volt 17XX-CLAMP-ADPT-1V	All *	Adds support for additional Fluke current clamps with BNC male connectors. <b>1 Volt:</b> - 1.0V maximum - Supports clamps with a range from 0.2-1000A AC or up to 1500A DC <b>2.8 Volt:</b> - 2.8V maximum - Supports clamps with a range from 4-2800A AC or up to 4000A DC
	2.8 Volt 17XX-CLAMP-ADPT-2V8		
	FLUKE-17XX AUX	All	Analog auxiliary input adapter. Two channel support for 0-10V DC or 0-1000V DC. - 2 Channels - 0-10V DC or 0-1000V DC
	FLK-WIFI/BLE	173X and 174X only	Wi-Fi and BLE adapter for 173X and 174X instruments.
	WI-FI/BLE MODULE	177X only	Wi-Fi and BLE module for 177X instruments. Enables remote viewing, control, download of data. - 2.4Ghz and 5Ghz - Bluetooth 5 support for Fluke FC devices - Female MCX socket
	177X-ANTENNA	177X only	External omni-directional antenna. Compatible with Wireless and LTE modules for 177X instruments. - Length: 14.6cm (5.75") - 50 ohm impedance - 4.0 dBi gain - MCX Male connector
	Module Only LTE MODULE  Module and External Antenna 177X-ANT C/W LTE MOD	177X only	LTE (4G) module for 177X instruments. Enables remote viewing, control and download of data. Module available separately or bundled with External Antenna. - 4G LTE - Female MCX socket - Requires a Standard SIM (Mini-SIM 2FF) and Network Provider
	ANTENNA CABLE	177X only	For use where 177X instrument may not be able to pick up Wi-Fi, LTE or GPS signals directly. Requires end user supplied antenna (with male SMA connector). - Cable Length: 5m (16.4") - 50 ohm impedance - Male MCX and Female SMA connectors
	FLUKE-174X GPS-REC	174X only	Magnetic external GPS receiver module for precise time synchronization. For use with 174X instruments. - Cable Length: 5m (16.4") - Time Accuracy: +/- 1us - IP65
	Color 17XX CABLE MARKER White FLUKE-PQ-MARKER	All	Set of 16 wire markers for use with 173X, 174X and 177X instruments.
Upgrades	Model	Compatibility	Function and Key Specifications
Upgrade Kit - 1732 to 1734 (EUS Only)	FLK-1732/UPGRADE EUS	1732 only	Add support for FC wireless devices and Wi-Fi connectivity. Kit includes magnetic probes, magnetic hanger, and Wi-Fi/Bluetooth adapter(s).
Upgrade Kit - 1736 to 1738 (EUS Only)	FLK-1736/UPGRADE EUS	1736 only	Adds improved event capture including waveforms as well as support for PQ Health summary. Kit includes magnetic probes, magnetic hanger, and Wi-Fi/Bluetooth adapter(s).
Upgrade Kit - 1742 to 1746	1742-6/UPGRADE	1742 only	Adds support for harmonics, unbalance, RVC, interharmonics, event table, mains signaling and inrush current. Kit includes magnetic probes.
Upgrade Kit - 1746 to 1748	1746-8/UPGRADE	1746 only	Adds more detailed event data including waveforms and high resolution trending. Kit includes magnetic hanger.
Upgrade Kit - 1742 to 1748	1742-8/UPGRADE	1742 only	Adds support for harmonics, unbalance, RVC, interharmonics, event table, mains signaling and inrush current. Also adds more detailed event data including waveforms and high resolution trending. Kit includes magnetic probes and magnetic hanger.
IEEE519 Reporting License for 1736, 1738, 1746, 1748	IEEE519/REPORT	1736, 1738, 1746, and 1748 only	Adds support for measuring to IEEE519 and creation of IEEE519 reports. Compatible with 1736, 1738, 1746 and 1748 devices.

\* Firmware updates may be required for support of adapters. DC only supported on 177X instruments.

### Cases, Power and Batteries, and Hangers

Cases	Model	Compatibility	Function and Key Specifications
	C177X/6000	177X only	Soft case for 177X instruments and accessories. Includes carrying strap. - Dimensions: 280 x 325 x 220mm (11 x 12.8 x 8.7")
	C1777	177X only	Hard case with rollers, handle and retractable handle. Molded storage compartments to securely hold a 177X instrument and accessories. - Dimensions: 559 x 229 x 356mm (22 x 9 x 14")
	C17XX	173X and 174X only	Soft case for 173X and 174X instruments, and accessories. Includes carrying strap. Black 1000D polyester. - Dimensions: 365 x 225 x 225mm (14.4 x 8.9 x 8.9")
Power and Batteries	Model	Compatibility	Function and Key Specifications
	177X BATT W/HOUSING	177X only	Replacement battery pack for 177X instruments. Includes rubber holder. - Lithium Ion, 3.65V, 4000 mAh
	BP1730-BATTERY	173X and 174X only	Replacement battery pack for 173X and 174X instruments. - Lithium Ion, 3.7V, 2500 mAh
	FLUKE MA-C8	174X and 177X only	Power cord adapter for 174X and 177X instruments. Line power cord to 4mm sockets. - CAT IV 600V, CAT III 1000V
	FLUKE-1730-8054	173X only	DC power cable for 173X instruments. - Length: 1.5m (5.0')
Magnetic Hangers	Model	Compatibility	Function and Key Specifications
	FLK-174X_3541-HANGER	174X and 177X only	Magnetic hanging strap for 174X and 177X instruments. Uses super strong neodymium magnets.
	FLUKE-1730-HANGER	173X only	Magnetic hanging strap set for the 173X instrument. Includes 2 straps for hanging main unit and power supply separately. Uses super strong neodymium magnets.



**FLUKE 1732 ENERGY LOGGER**

Logger: Power 3  $\phi$  Wye 04/05/2013 03:51pm

Apparent Power			
L1	L2	L3	Total
Avg: 0.049 kVA	0.021 kVA	0.040 kVA	1.615 kVA

Top forward power 1 min. average measurements:

Fri, 04/05/2013 14:39:00	7.054 kVA
Fri, 04/05/2013 14:36:00	7.055 kVA
Fri, 04/05/2013 12:30:00	7.063 kVA

Averaged every 1 min.

## PremiumCare

Uptime Protection by **FLUKE**



### Premium Care

Coverage above and beyond the original product warranty reduces unexpected downtime caused by damaged test equipment, accessories, or tools in need of calibration or repair. Contact our sales team for availability and pricing.

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

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