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# GPS 430

## GPS Synchronization Module

### Instruction Sheet

### Limited Warranty & Limitation of Liability

Each Fluke product is warranted to be free from defects in material and workmanship under normal use and service. The warranty period is one year and begins on the date of shipment. Parts, product repairs and services are warranted for 90 days. This warranty extends only to the original buyer or end-user customer of a Fluke authorized reseller, and does not apply to fuses, disposable batteries or to any product which, in Fluke's opinion, has been misused, altered, neglected or damaged by accident or abnormal conditions of operation or handling. Fluke warrants that software will operate substantially in accordance with its functional specifications for 90 days and that it has been properly recorded on non-defective media. Fluke does not warrant that software will be error free or operate without interruption.

Fluke authorized resellers shall extend this warranty on new and unused products to end-user customers only but have no authority to extend a greater or different warranty on behalf of Fluke. Warranty support is available if product is purchased through a Fluke authorized sales outlet or Buyer has paid the applicable international price. Fluke reserves the right to invoice Buyer for importation costs of repair/replacement parts when product purchased in one country is submitted for repair in another country.

Fluke's warranty obligation is limited, at Fluke's option, to refund of the purchase price, free of charge repair, or replacement of a defective product which is returned to a Fluke authorized service center within the warranty period.

To obtain warranty service, contact your nearest Fluke authorized service center or send the product, with a description of the difficulty, postage and insurance prepaid (FOB Destination), to the nearest Fluke authorized service center. Fluke assumes no risk for damage in transit. Following warranty repair, the product will be returned to Buyer, transportation prepaid (FOB Destination). If Fluke determines that the failure was caused by misuse, alteration, accident or abnormal condition of operation or handling, Fluke will provide an estimate of repair costs and obtain authorization before commencing the work. Following repair, the product will be returned to the Buyer transportation prepaid and the Buyer will be billed for the repair and return transportation charges (FOB Shipping Point).

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Since some countries or states do not allow limitation of the term of an implied warranty, or exclusion or limitation of incidental or consequential damages, the limitations and exclusions of this warranty may not apply to every buyer. If any provision of this Warranty is held invalid or unenforceable by a court of competent jurisdiction, such holding will not affect the validity or enforceability of any other provision.

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### Service Centers

To locate an authorized service center, visit us on the World Wide Web:

<http://www.fluke.com>

or call Fluke using any of the phone numbers listed below:

+1-888-993-5853	in USA and Canada
+31-40-2675-200	in Europe
+1-425-446-5500	from other countries

### Introducing the GPS 430

The GPS 430 GPS Synchronization Module guarantees that the time clock uncertainty of the Fluke 433/434/435 and Fluke 434-II/435-II/437-II (Series II) Power Quality Analyzers does not exceed  $\pm 20$  ms for 50 Hz signals, according to IEC 61000-4-30.

This performance is necessary to ensure that Class A instruments produce the same 10 minutes aggregation results when connected to the same signal.

The GPS 430 can only be used on the Fluke 430 series Power Quality Analyzers.

*Note: The GPS system is operated by the government of the United States, which is solely responsible for its accuracy and maintenance.*

### Unpacking

The following items should be included in the package:

- PM9080 Optically Isolated Interface Cable (Fig. 1). To be used for Fluke 433/434/435.
- Adapter cable DB-9 to Micro USB (Fig. 2). To be used for 434-II/435-II/437-II (Series II).
- PM8907/808 Power Adapter (Fig. 3)
- GPS 430 Unit, cable length 5 m (Fig. 4)
- Instruction Sheet GPS 430 (this paper)

Check the contents of the shipping box for completeness. If something in the box has been damaged or missing, contact your distributor or the nearest FLUKE sales or service office immediately.

Jan 2012, 12/2012

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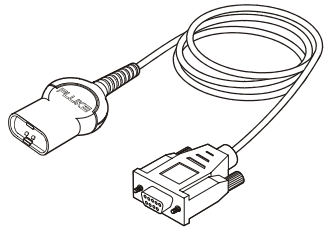


Fig. 1. PM9080

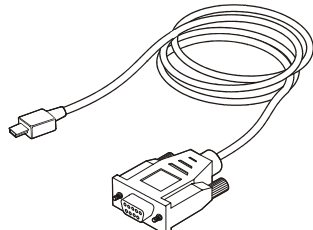


Fig. 2. Adapter DB-9 to Micro USB

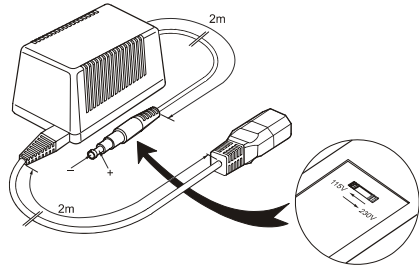


Fig. 3. PM8907

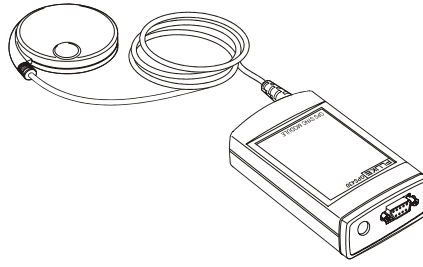


Fig. 4. GPS 430

## Using the GPS 430

1. Connect the PM8907 power adapter output to the GPS 430 power input.
2. Check the preselected voltage setting on the PM8907/808, see the PM8907/808 Instructions below.
3. Connect the PM8907 to the line voltage.
4. Connect the PM9080 Optical Interface Cable to the GPS 430 and to the Power Quality Analyzer.
5. Verify that the GPS 430 data are received by the Power Quality Analyzer:
  - *Fluke 433/434/435*: Verify that the GPS 430 data are received by the Power Quality Analyzer: select SETUP, use the up/down arrow keys to highlight Time, ENTER, function key F2 - GPS ON to start the GPS TEST. See also the Power Quality Analyzer Users Manual.
  - *Fluke 434-II/435-II/437-II (Series II)*: press in sequence the SETUP key, press function key F4 – MANUAL SETUP, use the up/down arrow keys to highlight Time, press ENTER, press F2 – GPS ON to start the GPS TEST. See also the Power Quality Analyzer Users Manual.

Note: For proper reception, the GPS antenna should not be covered by metal.

## PM8907/808 Instructions

Please read these instructions carefully before using the Power Adapter.

### Caution

Before you connect the PM8907/808 to the local line, first check the preselected voltage setting on this unit. You can find the voltage selector switch on the bottom of the PM8907/808. If necessary, select the corresponding line voltage with the slide switch and ensure that the proper voltage is visible in the window of the slide selector. (see Fig. 2.)

For connection to the mains outlet, use a power cord that complies with national standards.

- Observe the polarity 5-mm power jack; the outer contact is plus (+) polarity.
- Do not open the PM8907, it is not serviceable.

## PM8907/808 Specifications

- Universal switchable adapter 115V  $\pm 10\%$  or 230V  $\pm 15\%$ , with plug EN60320-2.2G
- Line frequency: 50, 60, and 400 Hz  $\pm 10\%$ .
- Output voltage: 15V.
- Output current: 300 mA.
- Power consumption: 7W maximum.
- Output plug: 5-mm power jack per DIN 45232.
- Plus (+) voltage connected to outer contact of the 5-mm power jack.

## Symbols

International electrical symbols used are explained below.

	See explanation on Instruction Sheet.
	DOUBLE INSULATION (Protection Class).
	Conforms to relevant European standards.
	Do not dispose of this product as unsorted municipal waste. Go to Fluke's website for recycling information.