

# 430 Series II comparison guide



|                     | <b>434 Series II Energy Analyzer</b>   | <b>435 Series II Power Quality and Energy Analyzer</b>  | <b>437 Series II Power Quality and Energy Analyzer</b>  |
|---------------------|--|---|---|
| <b>Users</b>        | Electrician<br>Basic power quality user  | Industrial electrician<br>Utilities technician<br>Advanced power quality user   | Military defense, avionics and other transport-focused industrial electricians and utility technicians  |
| <b>Applications</b> | <p>Power and energy analysis using the Energy Loss Calculator—discover the cost of energy waste due to power quality issues.</p> <p>Basic PQ V/A/Hz, power, dips, swells, harmonics, unbalance, full visibility in to the key issues with little or no setup time—discover the source of power quality problems and fix them quickly</p> <p>Power Inverter Efficiency: simultaneously measure input and output power of inverters in solar, wind and UPS apps—enables inverter systems to be optimized for best performance.</p> | <p>PowerWave waveform capture: capture up to 5 minutes of fast RMS and waveform data—view the dynamic interactions between the power system and switching loads, perfect for generator testing.</p> <p>Power Inverter Efficiency: simultaneously measure input and output power of inverters in solar, wind and UPS apps—enables inverter systems to be optimized for best performance.</p> <p>Advanced PQ, flicker, transients, Class A compliance—the best accuracy for reliable power quality surveys, independently verified by industry specialist PSL of California.</p> <p>Power and energy analysis using the Energy Loss Calculator—discover the cost of energy waste due to power quality issues.</p> | <p>In addition to measurements on 50 and 60Hz systems measure on 400 power systems—the perfect troubleshooter for avionics and shipboard power systems.</p> <p>PowerWave waveform capture: capture up to 5 minutes of fast RMS and waveform data—view the dynamic interactions between the power system and switching loads, perfect for generator testing.</p> <p>Power Inverter Efficiency: simultaneously measure input and output power of inverters in solar, wind and UPS apps—enables inverter systems to be optimized for best performance.</p> <p>Advanced PQ, flicker, transients, Class A compliance—the best accuracy for reliable power quality surveys, independently verified by industry specialist PSL of California.</p> <p>Power and energy analysis using the Energy Loss Calculator—discover the cost of energy waste due to power quality issues.</p> |
| <b>Key features</b> | Waste Energy Calculator<br>Power Inverter Efficiency   | Advanced power quality measurements.<br>PowerWave data capture<br>Power Inverter Efficiency<br>Energy Loss Calculator   | Shipboard power at 50, 60 and 400Hz.<br>Advanced power quality measurements.<br>PowerWave data capture<br>Power Inverter Efficiency<br>Energy Loss Calculator   |

## 430 Series II Power Quality and Energy Analyzer selection chart

| Model                          | Fluke 434-II | Fluke 435-II | Fluke 437-II |
|--------------------------------|--------------|--------------|--------------|
| IEC 61000-4-30 compliance      | Class S      | Class A      | Class A      |
| Volt Amp Hz                    | •            | •            | •            |
| Dips and swells                | •            | •            | •            |
| Harmonics                      | •            | •            | •            |
| Power and energy               | •            | •            | •            |
| Energy loss calculator         | •            | •            | •            |
| Unbalance                      | •            | •            | •            |
| Monitor                        | •            | •            | •            |
| Inrush                         | •            | •            | •            |
| Event waveform capture         |              | •            | •            |
| Flicker                        |              | •            | •            |
| Transients                     |              | •            | •            |
| Mains signaling                |              | •            | •            |
| Power wave                     |              | •            | •            |
| Power inverter efficiency      | •            | •            | •            |
| 400 Hz                         |              |              | •            |
| Shipboard power                |              |              | •            |
| C1740 Soft Case                | •            | •            |              |
| C437-II Hard Case with rollers |              |              | •            |
| SD card (Max 32 GB)            | 8 GB         | 8 GB         | 8 GB         |

All models include the following accessories TLS430 test lead set, 4 x i430 thin flexi current probes, BP290 battery, BC430 power adapter with international power adapter set, USB cable A-B mini and PowerLog CD.

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