

Fluke Three Phase Power Quality Analyzers



The Fluke 435 and 434 three-phase power quality analyzers help locate, predict, prevent and troubleshoot problems in three-phase and single-phase power distribution systems. The new IEC standards for flicker, harmonics and power quality are built in.

- Analyzer trends using cursor & zoom tools even while background recording
- Seven hours operating time per charge on NiMH battery pack
- Transfer data files to your PC for reporting and analysis using FlukeView® software

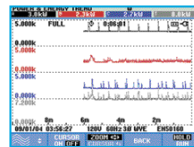
435 Includes: Hard carrying case with rollers, four flexible current probes (i430-flex), five test leads and clips, battery charger, FlukeView software, Power Log software, optical USB cable, color localization set, Getting Started manual, Users manual.

434 Includes: Hard carrying case, four current probes (i400s), five test leads and clips, battery charger, FlukeView software, optical USB cable, color localization set, Getting Started manual, Users manual.

3 Year warranty

ORDERING INFORMATION

| | |
|-----------|---------------------------|
| Fluke 435 | 3Ø Power Quality Analyzer |
| Fluke 434 | 3Ø Power Quality Analyzer |



- Automatic transient capture: never miss an event
- Auto Trends: don't waste time setting up recordings



- Four voltage and four current channels capture waveform data on all phases simultaneously
- Meter display of phase readings

| Feature | 435 | 434 |
|---|-----------------------------|-------------------|
| Measure voltage, current, dips, swells, interruptions, harmonics, inter-harmonics, flicker, power, energy, transients, frequency, unbalance, inrush, EN50160 overview | • | • |
| Logger function with multiple parameters | • | Optional* |
| Mains signalling | • | Optional* |
| Current probes | 3000A flexible (4) | 40/400A clamp (4) |
| Memory | 16MB | 8MB |
| Software | Power Log & FlukeView | FlukeView |
| IEC61000-4-30 Class A compliance | • | • |
| Safety rating | CAT IV 600 V/CAT III 1000 V | |
| Battery life | Up to 7 hours/charge | |

*Optional function can be added with upgrade kit.

SPECIFICATIONS

| | |
|----------------------|--|
| System Configuration | 1Ø+neutral, 1Ø split phase, 1Ø IT no neutral, 3Ø WYE, 3Ø Δ, 3Ø IT, 3Ø hi leg, 3Ø open leg, 3Ø 2-element, 3Ø 2½-element |
| Voltage Inputs | Four (3 phases + neutral), dc coupled |
| Maximum | 1000V rms, 6kV maximum peak measured |
| Bandwidth | >10kHz, up to 100kHz for transient display |
| Accuracy (ac+dc) | 435: ±0.1% of nominal voltage, 434: ±0.5% of nominal |
| Current Inputs | Four ((3 phases + neutral), dc coupled |
| Range | Determined by clamp-on probes used |
| Nominal Frequency | 40-70Hz, BW >10kHz |
| Accuracy (ac+dc) | 435: ±0.5%±20d, 434: ±1%±5d (with supplied probes) |
| Watts (VA, VAR) | 1.0-20.00MW (resolution 0.1 to 1 kW) |
| Accuracy | 435: ±1%±10d, 434: ±1.5%±10d |
| Sampling | 16 bit resolution. 200k samples/second max |
| Logger Function | Captures up to 10000 events, 100 parameters/phase |
| Display | 4.5" x 3.4" Color LCD, 320x240 pixel |
| Power | 115/230V ac or battery, built-in battery charger |

Fluke Power Quality Analyzer



- Voltage, current and power harmonics up to 51st
- Total harmonic distortion (THD)
- Phase angle of individual harmonics
- Watts, power factor, displacement power factor, VA and VAR
- Voltage and current waveforms
- Calculates 3Ø Power on Balanced Load from 1Ø Measurement
- Use cursors to read time and date of sags and swells.
- Catch voltage transients and waveform distortion
- See current at the instant of voltage events
- Catch and save up to 40 transients
- Correlate the cause of distortion with time and date stamps
- 3 Year Warranty

The Fluke 43B includes a hard case, voltage and current probes, FlukeView® PC software and cable, line voltage adapter/battery charger, applications manual, power quality video and user's manuals.

ORDERING INFORMATION

| | |
|-----------|------------------------|
| Fluke 43B | Power Quality Analyzer |
|-----------|------------------------|

The Fluke 43B Power Quality Analyzer performs the measurements you need to maintain power systems, troubleshoot power problems and diagnose equipment failures. All in a rugged handheld package.

| Function | Measurement | Accuracy/Selection |
|-------------------|--|---|
| Volts | 5.000V-600V RMS (AC & DC) | |
| Amps | 50.00A-50.00kA RMS (AC & DC) | ±(1%+10d) |
| Mains Frequency | 40.0-70.0Hz | ±(0.5%+2d) |
| Watts, VAR, VA | 250W-2.5MW | ±(4%+4d) |
| PF, DPF | 0.25-1.00 | ±0.04 |
| Sags & Swells | Voltage and Current | 4 min-16 days selectable |
| Transient Capture | 40 ns pulse width Up to 40 transients | Select 20/50/100/200% above or below line voltage |
| Thrush Current | 1A to 1000A | 1s to 5 min selectable |
| Ohms | 500.0Ω to 30.00MΩ | ±(0.6%+5d) |
| Capacitance | 50.00nF to 500.0μF | ±(2%+10d) |
| Scope | Dc, ac, ac+dc, peak, peak-peak, Hz, duty cycle, phase, pulse width, crest factor | Sampling rate: 25MS/sec Bandwidth: Voltage BW (Channel 1): 20MHz Current BW (Channel 2): 15kHz |
| Screen Saves | All functions | 10 screens |
| Recording | V/A/Hz, Power, Harmonics, Ω/Cap, Temperature, Scope | 4 min-16 days selectable parameters in each display mode |

Battery life: Rechargeable Ni-Cd pack (charger included), 6 hrs typical (continuous)

OPTIONAL ACCESSORIES

| | |
|-----------|--|
| i200s | 240A AC current probe |
| 80i-1000s | 1000A AC current probe |
| i2000flex | 2000A flexible AC current probe |
| 80TK | Thermocouple module |
| 80T-IR | Non-contact infrared temperature probe |
| PAC91 | Parallel printer adapter |