

Products CATALOG

Elspec is a global leader in providing comprehensive electrical Power Quality solutions, power quality analyzers and power monitoring software. We focus on developing technology that shifts the power quality market to the next level. With over 35 years of experience, we develop tailor-made power quality solutions along with state-of-the-art power quality analyzers empowering customers to overcome their power and energy challenges









Measure. Control. Resolve.

Power Quality Analyzers & Multi-functional Recorders

Elspec's advanced analyzers technology captures, monitors and records all waveform signals continuously at 256/512/1024 samples per cycle; Every parameter, nothing ever missed.

Elspec's analyzers far surpass the highest Industry standards and comply with IEC 61000-4-30 Class A. Elspec's products are equipped with Elspec PQSCADA Sapphire, enabling to view and analyze more than 5,000 power parameters at any given resolution from the acquired waveform signals.



G4400 Fixed Power Quality Analyzer

- 1 year of continuous waveform recording at up to 1,024 samples per cycle
- No missed events because no triggers settings /no thresholds
- Simple and easy deployment
- The ultimate tool for definitive root-cause analysis
- Analyze harmonics up to the 511th harmonic.
- Time synchronized with each meter in the network
- Real-time high-resolution data at various protocol for control applications
- Seamless integration with existing SCADA systems through Modbus or DNP 3 protocols

G4500 Portable Power Quality Analyzers

- 1 year continuous waveform recording at up to 1,024 samples per cycle
- No missed events because No Triggers settings /No Thresholds
- The ultimate tool for definitive root-cause analysis
- Analyze harmonics up to the 511th harmonic.
- Measure up-to 1,000VRMS
- All The Data in Your Pocket: Getting the G4500 data via the PQSCADA App!
- Accurately measure DC currents and voltages





PureBB Handheld Power Quality Analyzers

- Plug & Play small and lightweight solution
- 1 month of continuous waveform recording at 256 samples per cycle
- Configuration free device
- No missed events because No Triggers settings /No Thresholds
- Analyze harmonics up to the 127th harmonic.
- All The Data in Your Pocket: Getting the PureBB data via the PQSCADA App!
- Accurately measure DC currents and voltages

G5 Multi-Functional Digital Fault Recorder

- 1 year of Continuous waveform recording at up to 1,024 samples per cycle
- No missed events because no triggers settings /no thresholds
- Multi-function:
 - PMU (Phasor Measurement Unit)
 - PQA (Power Quality Analyzer)
 - DFR (Digital Fault Recorder) Merging Unit
- Analyze harmonics up to the 511th harmonic.
- Exceed C37.118 Synchro-phasor requirements for both M and P classes IEC 61850 MMS, GOOSE and SV
- Real-time high-resolution data
- Seamless integration with existing SCADA systems through Modbus, DNP 3 or IEC 61850 protocols
- Built-in 7" touch screen



Power Quality Solutions

Real time reactive power compensation systems

Elspec's power quality solutions compensate for full load reactive power demands to achieve unity power factor levels continuously as well as reduce Harmonic levels, eliminate voltage drops, minimize voltage fluctuations and significantly increase voltage stabilization, all in real-time.

Elspec's systems use ultra-high power thyristor switching technology, providing transient free smooth switching by connecting capacitors at zero-crossing.







LV Equalizer Real-Time Reactive Power Compensation System

- Complete compensation in ¼ to 1 waveform cycle maximum.
- Reduces losses on cables and transformers
- Significantly reduces voltage sags/flicker & provides voltage support to local electrical networks
- Provides harmonic filtration
- Transient-free switching (SCR switches)

MV Equalizer Real-Time Reactive Power Compensation Systems

- Power factor correction system for dynamic loads with extreme fast variations of reactive power demand.
- Complete compensation in ¼ to 1 waveform cycle maximum.
- Reduces losses on cables and transformers
- Significantly reduces voltage sags/flicker & provides voltage support to local electrical networks and harmonic filtration
- Transient-free medium voltage switching (SCR switches)
- Equipped with 2 DFR units or more with trigger-free PQZIP technology (Patented) for advanced control, recording and I²t protection.

One of the world's Fastest

Power FactorCorrection Systems



Energy Efficiency Concept

- Voltage optimization
- Energy Efficiency Simulation Report
- Significantly reduces voltage sags/flicker & provides voltage support to local electrical networks
- Provides harmonic filtration
- Improves revers sequence



Activar Power Factor Compensation Systems

- Achieves fast & accurate Power Factor control and complete compensation in 1-4 seconds maximum, even in the presence of harmonics
- Unique SCAN feature reduces capacitor duty cycles and extends system life
- Harmonic filtration
- Transient-free switching (SCR switches)
- Numerous industrial/commercial application possibilities



Compact Activar/Equalizer Power Compensation Systems

- Complete compensation in ¼ to 1 waveform cycle maximum.
- Reduces overall facility energy consumption
- Compact & efficient design
- Alternative to conventional, larger compensation systems
- Designed for industrial & commercial applications

Power Monitoring Software

Elspec's PQSCADA Sapphire's multi-vendor support sets a new standard for power monitoring software. This enables the gathering and analysis of all generated data in one place, regardless of IED manufacturer.

- Sophisticated event detection capabilities
- Real-time overview
- Integrated data from different devices & locations
- Custom reports with more that 5000 parameters
- Automatic alerts
- An expendable platform with options for add-ons & further development to meet the customer's needs

Chosen by the Major Power Companies,

utility consultants and top power quality engineers in the electrical industry.



Ask us about our complete line of power quality solutions www.elspec-ltd.com

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