

ACCuMeasure™

ACCuMeasure™ 8500Q — a next-generation Class S Power Quality Analyzer designed for comprehensive monitoring and energy management. Engineered for industrial, commercial, and critical infrastructure applications, the ACCuMeasure™ 8500Q combines advanced harmonic analysis, demand forecasting, real-time monitoring, and secure cloud connectivity to deliver accurate, reliable, and standards-compliant power quality insights.

HIGHLIGHTS

- Class S Metering (IEC 61000-4-30)
- Secure MQTT Cloud Connectivity
- Full Harmonics & Interharmonics up to 63rd
- Built-In Web Dashboard
- 512 Samples per Cycle
- Demand Analysis with Forecast
- Time Synchronization via SNTP

TECHNICAL SUMMARY

ELECTRICAL SPECS

- Accuracy Class: 0.2S (IEC 62053-22)
- Current Input: 10 mA–6
- Frequency: 45–65 Hz
- Sampling Rate: 512 samples/cycle
- Voltage Input: 50–600 VLL AC

DISPLAY & STORAGE

- 3.5-inch TFT Display
- Built-in Web Dashboard
- 2GB Internal Data Storage

POWER QUALITY STANDARDS

- IEC 61000-4-30 Edition 3 (Class S)
- EN 50160 Compliance
- IEC 61000-4-7 Harmonics Monitoring
- IEC 61000-3-6 Harmonics Emissions
- COMTRADE Compatibility

ENVIRONMENTAL

- Operating Temperature: -10°C to +55°C
- Storage Temperature: -25°C to +70°C
- Humidity: 5% to 95% Non-Condensing

COMMUNICATION

- RS485 Modbus RTU
- Ethernet 10/100 Base-T
- Modbus TCP
- MQTT Cloud Connectivity
- TCP/IP, IPv4, DHCP, DNS

MECHANICAL

- Dimensions: 155 × 155 × 63 mm
- Panel Cut-Out: 138 × 138 mm
- Weight: 600 g (Unpacked)

POWER QUALITY METER



POWER QUALITY METER

WHY PROFESSIONALS CHOOSE **ACCuMeasure™ 8500Q**

- Advanced power quality analysis conforming to IEC standards
- Real-time monitoring of voltage disturbances and demand trends
- Secure cloud-based remote asset monitoring through MQTT
- Robust industrial design with RS485 and Ethernet communication
- Long-term data recording and energy efficiency analysis

APPLICATION



Industrial and Manufacturing Plants- Protect equipment through detailed harmonic analysis, voltage quality monitoring, and disturbance detection



Data Centers- Ensure power reliability and operational continuity with real-time monitoring and demand analysis



Remote Asset Monitoring- Track distributed assets globally using web dashboards and IoT cloud connectivity



Commercial Buildings- Monitor energy consumption, improve efficiency, and optimize electrical infrastructure performance

WHY IS **ACCuMeasure™ 8500Q** CRITICAL?



Monitoring Critical Assets



Optimize Energy Management



Remote Monitoring



Enhance Reliability