



TECHNICAL DATA SHEET

With QSense, we are powering a sustainable future through innovation, efficiency, and unwavering reliability, **monitoring watt matters most**. Together, we can transform energy management, **one watt at a time**.



TECHNICAL DATA SHEET

QSENSE IS AN ADVANCED POWER QUALITY MONITORING SOLUTION DESIGNED TO PROVIDE DETAILED INSIGHTS INTO POWER QUALITY PARAMETERS.

By tracking voltage stability, current harmonics, and power factor, QSense helps businesses maintain optimal power quality, protect equipment, and enhance operational efficiency.

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**MONITOR
WATT
MATTERS
MOST**

ADVANCED POWER QUALITY MONITORING SOLUTION

KEY FEATURES

GRANULAR POWER QUALITY MONITORING

- Voltage Monitoring: Tracks voltage levels to ensure stability and prevent fluctuations.
- Current Monitoring: Monitors current to detect and address imbalances.
- Harmonic Analysis: Analyses harmonics to reduce distortion and improve power quality.
- Power Factor Correction: Ensures efficient use of electrical power.

REAL-TIME DATA VISUALISATION

- Instant Insights: Provides real-time data on power quality parameters.
- User-Friendly Dashboard: Intuitive interface for easy navigation and analysis.

PROACTIVE ALERTS

- Immediate Notifications: Alerts for power quality issues, enabling prompt action.
- Customisable Thresholds: Set specific thresholds to trigger alerts based on your requirements.

COMPREHENSIVE ANALYTICS

- Detailed Reports: Generates comprehensive reports for in-depth analysis.
- Historical Data Analysis: Stores historical data to identify trends and make long-term improvements.

EASY INTEGRATION

- API Compatibility: Seamlessly integrates with existing systems for data exchange.
- Flexible Configuration: Adapts to various electrical setups and requirements.

TECHNICAL DATA SHEET (TDS)

TECHNICAL SPECIFICATIONS

- Voltage Measurement Range: 0-600V AC
- Current Measurement Range: 0-1000A AC (using external Current Transformers)
- Frequency Range: 50/60Hz
- Harmonic Measurement: Up to the 50th harmonic
- Power Factor Measurement: -1.00 to 1.00
- Sampling Rate: 1024 samples per cycle
- Communication Interface: Ethernet, Wi-Fi
- Operating Temperature: -20°C to 60°C
- Storage Temperature: -40°C to 85°C
- Power Supply: 100-240V AC, 50/60Hz
- Degree Of Protection: IP30
- Pollution Degree: 3
- Dimensions: 251mm * 176mm * 76mm
- Weight: 0.94kg



BENEFITS

IMPROVE POWER QUALITY

- Maintain stable voltage and current levels to enhance equipment performance and lifespan.

REDUCE MAINTENANCE COSTS

- Prevent equipment failures and reduce the frequency of repairs.

ENHANCE OPERATIONAL EFFICIENCY

- Optimise power usage and improve overall operational efficiency.

SUPPORT SUSTAINABILITY GOALS

- Reduce energy waste and support your sustainability initiatives.

MAKE INFORMED DECISIONS

- Use detailed data and analytics to guide your energy management strategies.

APPLICATIONS

QSense is suitable for a wide range of industries and applications, including:

- Manufacturing Plants: Ensure stable power supply for heavy machinery.
- Data Centres: Maintain optimal power quality for critical IT infrastructure.
- Commercial Buildings: Improve energy efficiency and reduce operational costs.
- Healthcare Facilities: Ensure reliable power supply for medical equipment.
- Educational Institutions: Support sustainability initiatives and reduce energy costs.

TECHNICAL DATA SHEET (TDS)

INSTALLATION AND SETUP

HARDWARE INSTALLATION

- Unpack the QSense device and check all components.
- Connect Current Transformers (CTs) to the appropriate phase grid lines.
- Connect voltage measurement wires to the respective phase grids.
- Plug all connections into the corresponding ports on the QSense device.
- Power on the QSense device.

SOFTWARE CONFIGURATION

- Download and install the QSense Config Application on an Android device.
- Connect the device to the QSense hotspot and open the application.
- Follow the prompts to enter Wi-Fi credentials and complete user registration.
- Configure device settings and save the configuration.

SUPPORT AND MAINTENANCE

- Customer Support: Contact our support team for any installation or operational issues.
- Firmware Updates: Regular firmware updates to ensure optimal performance and new features.
- Maintenance Tips: Follow the maintenance guidelines to keep your QSense device in excellent condition.

For more information about QSense and its features, visit our website at

www.infinixenergy.com or contact us at info@infinixenergy.com.

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Infinix Energy Solutions:
Empowering Efficiency Through
Data-Driven Insights

