

DIRIS Q800 is a high-end power quality analyser, able to monitor and record the major power quality parameters. Operating as an event/fault recorder, capable to store a high number of voltage events and disturbances, frequency variations, inrush current, etc. Additional PQ data can be recorded, such as Flicker, Unbalance, Harmonics and Inter harmonics, Mains Signalling. It also provides standard power measurement data for three-phase systems. Extra voltage and current measurement channels give the possibility to monitor Neutral Potential and Earth Leakage current.

**Main benefits:**

- Embedded Web Server
- Large colour touch screen with user-friendly instrument web interface
- Fast simultaneous sampling on 9 channels at 1024 samples / cycle
- Voltage event recording (sags,swells,interruptions) with storage of 1/2 cycle RMS values and waveforms
- Frequency variation monitoring and recording with of 1/2 cycle RMS values and waveforms
- Overcurrent recording on three-phase channels with storage of 1/2 cycle RMS values and waveforms
- Continuous monitoring of the power quality and Class A certified measurements for voltage characteristics
- Simultaneous recording of events, Min/Avg/Max LOG and energy counters
- Analyser software is provided to perform analysis on recorded data according to EN50160 PQ standard
- Export standard file formats (PQDIF and CSV) to allow quick view and analysis on all stored data

**Specifications:**

Power supply: 85...285 VAC, 50/60 Hz / 65...250 VDC  
 Backup Battery: Li-Ion,2500 mAh (>15 min autonomy)  
 Recording Memory: 4 GB (16 GB Optional)

**Measurement inputs:**

- Direct voltage measurement input: P-N: max 580 V RMS CAT III, L-L: max 1000 V RMS CAT III
- U4 Direct voltage measurement input: Max 580 V RMS CAT III

**Accuracy:**

- Three-phase voltage: ±0.1% Un over 10 ... 150% Un range
- U4 voltage: ±0.2% measurement
- Currents: ±0.2% measurement (device)
- Powers: ±0.2% measurement
- Frequency: ±8 mHz
- Harmonics: Class 1 (IEC/EN 61000-4-7)
- Realtime clock (RTC): <1s in 24h without synchronisation; <5ms with GPS synchronisation
- Active energy: Class 0.5S, compliant to IEC/EN 62053-22
- Reactive energy: Class 1, compliant to IEC/EN 62053-23

**Communication:**

- Ethernet ports: 2 x Auto MDIX RJ45 10/100 Base Ethernet
- RS485 port (slave): 1 x Optoisolated, 0.5UL, 2400...115200bps
- WIFI antenna: 1 x Passive antenna, SMA connector on rear panel
- GPS antenna: Active patch antenna, remote powered, SMA connector
- Protocols: HTTP, HTTPS, FTP, SFTP, NTP, NMEA, Modbus TCP, Modbus RTU
- USB port: 1 x USB 2.0 A type socket, high speed 480 Mbit/s

**Standard:**

- Product compliance: IEC/EN 62586-1, IEC/EN 62586-2
- Certification: Class A, IEC/EN 61000-4-30:2015 Ed.3 for voltage



DIRIS Q800

type	operating temperature	DI	DO	AI	memory	description
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**DIRIS Q800 multifunction network quality analyser**

4826 0100	-25 ... +55°C	4	4	4	4 GB (16 GB optional)	network quality analyser
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