



Network analyzer for monitoring the quality of electric service. Approved according to ENEL DI 2201 specifications

Wally IP

Measures and Recording

- Voltage and Current
- Apparent, Active and Reactive Power
- Frequency
- Flicker
- Harmonics and Interharmonics
- Unbalance
- Voltage dips, sags, swells
- Voltage microinterruptions
- Voltage interruptions
- Voltage transient
- Full power quality evaluation
- EN61000-4-30 compliance
- EN50160 compliance

Software application module

- EN50160 standard analysis
- Graphic and tabular reports
- Printouts and data exports
- GSM / GPRS modem communications
- EDS monitoring system manager

Powerful architecture

- 3 voltage channels 0÷100 Vac / 0÷600 Vac
- 3 currents channels 0÷5 Aac
- 4 auxiliary channels 0÷3 Vac configurable for voltage and current transducers
- 2 digital inputs + 2 digital outputs
- 2 serial interfaces (one for GSM / GPRS integrated modem)
- Ethernet 10baseT port
- Integrated GSM / GPRS modem
- Integrated interface to 4 flexible clamps (option)
- Graphic display 160 x 128 dots
- Lockable functional keyboard
- Universal power supply 85 - 265 Vac
- High capacity recorder (20 MB memory)
- Clock synchronization by GPS module (option)
- Connectors cover key lockable
- Long duration built-in UPS (5 min)
- Light weight and compact size
- Suitable ABS box

Options

- Flash 100Mbytes data memory
- Flash 500Mbytes data memory
- 4 Rogowski coils interface
- GTS9000 external device for GPS rtc synchronizing

**ENEL DI 2201:
“Portable equipment for measuring voltage characteristics of distribution networks”**

Specifications

Power Supply

Voltage: 85 - 265 Vac/dc 50÷60Hz
Consumption: 20 VA
Battery: 12V 5 Ah Pb sealed
Backup time: > 5 minutes, self-limited

Voltage Inputs

Channels: 3
Ranges: 100 Vac/dc ÷ 600 Vac/dc
Overload: +50% permanent
Type: resistive divider
Impedance: 1 MOhm
Terminals: 7.62 mm, removable

Direct Current Inputs (on request)

Channels: 3
Range: 5 Aac
Overload: +100% permanent
Type: current transformer
Impedance: 0.1 Mohm
Terminals: 7.62 mm, removable

Transducer Current Inputs

Channels: 4
Range: 3 V ac/dc
Overload: +50% permanent
Type: resistive divider
Impedance: 1 Mohm
Terminals: 3.81 mm, removable

Measure Section

Type: synchronous sampling phase locked
Bandwidth: -3dB @ 6,4 kHz
A/D Section: 12 bit + segno
Sampling: 6.4 ksample/sec.
Sampling: 12.5 ksample/sec. (TRS)
Compliance: EN61000-4-30 Class A for metod
Precision: 0,1% o 0,2%, as measurement range

Accuracy (@25 °C, 45-55Hz)

Voltage: $\pm 0.1\%$ f.s. from 10% to 130% f.s.
 $\pm 1\%$ f.s. from 1% to 10% and from 130% to 150% f.s.
Current: $\pm 0.1\%$ f.s. from 10% to 120% f.s.
 $\pm 1\%$ f.s. from 1% to 10% f.s.
Frequency: $\pm 0.1\%$ reading
Harmonics: $\pm 0.5\%$ f.s. for TDH > 0.5%

Safety

Reference: IEC1010-1 - EN61010-1

Environment Conditions

Operation: Temperature: 0 +45 °C
Humidity: 80% non-condensing
Storage: Temperature: -10 +70 °C
Humidity: 90% non-condensing

EMC

Emissions: EN50081-1
Immunity: EN50082-2

User Interface

Display: tipe STN LCD, 160 x 128 dots (96 x 78 mm)
Led backlighted with auto - shutoff
Programmable
Keyboard: 20 sealed keys
Lock: lock switch and/or password
Led: On/Standby, Battery, Alarm1/2, Shift, Hold

Data Memory

Type: Static Flash Eprom
Size: 20 MBytes (100 or 500 MBytes option)

Serial Ports

Number: 2
Type: RS232 (COM2 RS422 / RS485 option)
Baudrate: 300÷115200 bps
Connector: male sub-d 9 pins
Signal: EIA complete
Connection: local / remote via modem PSTN / GSM

Ethernet Port (option)

Type: 100baseT
Connector: RJ45

Clock Calendar

Format: yyyy/mm/gg hh:mm:ss.cc (cc: hundredths)
Accuracy: $1 * 10^{-5}$ ppm @25 °C
Synchronization: GTS9000 GPS external module (option)

GSM/GPRS Modem

Type: SONY ERICSSON (others available)
Dual band 900 / 1800 MHz
Compact jointed antenna included

GTS9000 GPS Satellite Receiver

Satellite system: GPS
Synchronization: > 3 satellites
Antenna: external, sky position

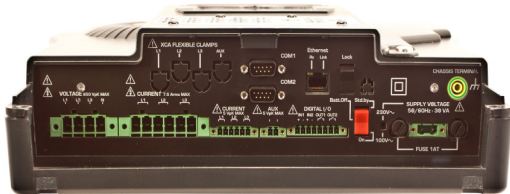
Specifications

Case

Size: 345 x 355 x 95 mm

Material: ABS

Weight: 4 kg



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