



EQUS

Three-phase credit/prepayment meter



EQUS multifunctional multi-tariff meter for direct or CT operated active and reactive energy measurement in three-phase, 4-wire power network. Ability of credit and/or prepayment mode. Built-in three-phase controlled contactor, changeable communication modules and external battery in new designed meter ready for Smart Metering.

MAIN FEATURES

- Four quadrants energy measurement
- Active and reactive power, voltage and current (true RMS) in each phase measurement
- Up to 16 rates, flexible TOU tariffs
- 2 configurable calendars (240 programmable free days)
- Programmable friendly hours and social power
- Automatic daylight saving time, programmable according to customer needs
- Reverse energy detection and measurement
- Advanced protection against tampering
- Remaining credit forecast
- Low credit alarms
- Emergency credit
- In-depth event register

OPTIONAL FEATURES

- Optional inputs/outputs: up to 2 auxiliary relay outputs or pulse outputs, up to 2 auxiliary inputs (rate switch, pulse inputs)
- Internal communication module: RC5 remote keypad, M-Bus, RS-232 or RS-485
- Changeable communication module: radio, GSM, RS-232, RS-485, M-Bus (slave), M-Bus (splitmeter), M-Bus (master/concentrator), PLC, WLAN, LAN, Bluetooth
- Up to 220 billing periods
- Programmable load profile
- Limiters for current, power (instantaneous, average), social power, power asymmetry, power factor
- Maximum demand recorder
- Magnetic field detection and registration

Smart, Efficient, Multifunctional

SPECIFICATIONS

Voltage ratings

| | |
|-----------------------------|------------------|
| Reference voltage (U_n) | 3 x 230 / 400 V |
| Voltage range | 0.8 – 1.15 U_n |
| Supply frequency | 50 Hz |

Current ratings

| | |
|-------------------------|---|
| Starting current | 0.4 % I_b |
| Basic current (I_b) | 1 / 2 A (CT operated meters) 5 / 10 / 15 / 20 A (direct meters) |
| Maximum current | 6 A (CT operated meters) 40 / 60 / 80 / 100 / 120 A (direct meters) |

Rated insulation voltage

6 kV

Overvoltage protection

4 / 8 / 12 kV

Accuracy class

B or A (active energy)
2 or 3 (reactive energy)

IP Rating

IP 55

Number of tariff

Max 16

Communication:

Radio, GSM, RS-232, RS-485,
M-Bus, PLC, WLAN, LAN, Bluetooth

Display

LCD 8-digits

System

Prepayment LEWsystem Apator
Smart Metering systems

Weather conditions

| | |
|-----------------------|---------------|
| Operation temperature | -40 to +70 °C |
| Humidity | ??? |

Power consumption in voltage circuit

< 0.7 W / < 1 VA

Power consumption in current circuit

< 0.2 VA

Optical port

19200 bps (EN 62056-21)

Pulse constant

640, 1280 (direct meters)
12800 (CT operated meters)

Battery backup

5 years without power supply
External changeable battery

Cable size

2.5 – 35 mm²

Weight

1.8 kg

Dimensions (w/h/d)

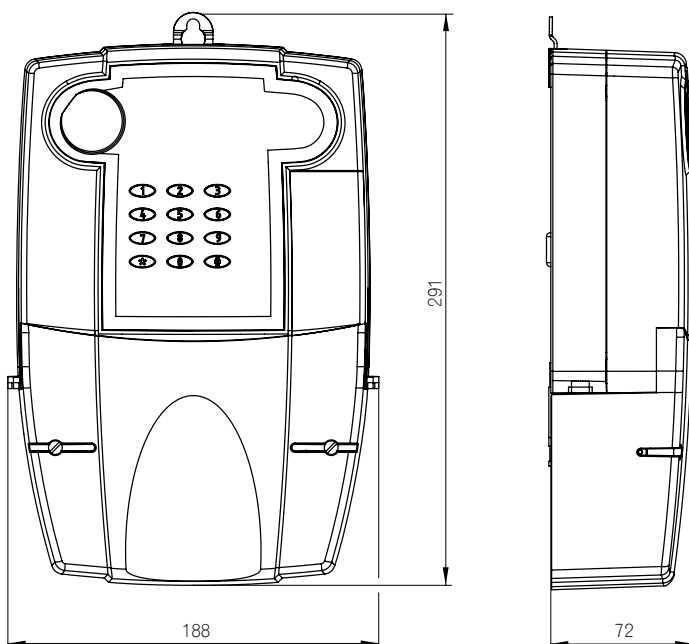
188 / 291 / 72 mm

Standards

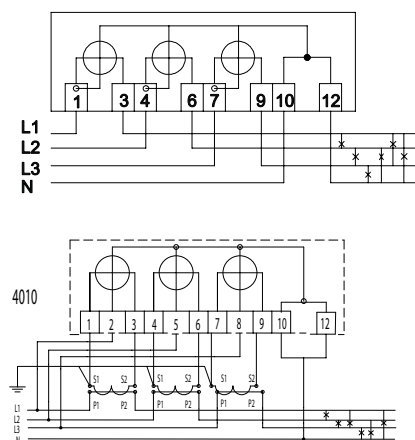
EN 50470
EN 62053-23

Certificates

JN1444-QS/1/2009



Wiring diagram



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