

# Three-phase electricity meter

## EQUS



### Application

Multipurpose electricity meter for three-phase four-wire networks with extensive functionalities. It enables direct measurement of active and reactive energy in multi-rate prepayment metering mode or in a fully autonomous credit mode. Interchangeable communication modules and a built-in contactor make the device a perfect foundation for Smart Metering systems.

### Features

- Bidirectional measurement of active and reactive energy
- Measurement of electrical network parameters: effective current and voltage, frequency, power factor
- Measurement of instantaneous and maximum power
- Configurable load profile
- Built-in contactor for disconnecting the current circuits
- Operating mode: prepayment or credit (switchable)
- Advanced prepayment functions
- Manual or automatic billing period closing
- Memory of at least 21 billing periods
- Real-time clock managing two complex switchable calendars
- Calendars allowing to define any number of special days, permanent holidays, and 240 movable holidays
- Current and power limiting features
- Event logging
- Local communication: optical port, RS-485 serial port
- Interchangeable communication module: PLC, GSM
- RCS remote control via infrared port (optional)
- Dedicated LCD
- Internal battery that maintains clock operation and displays data on the LCD during power outages

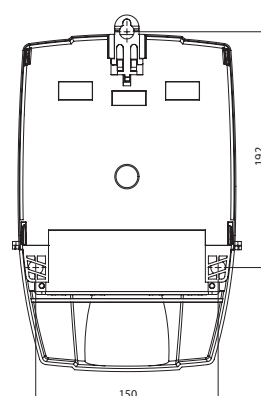
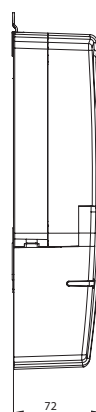
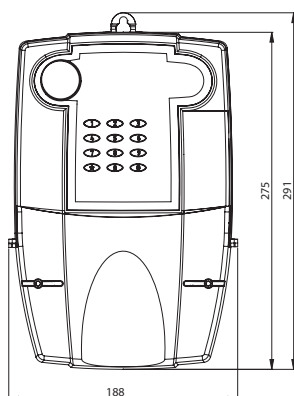
\*The meter's functions depend on its operation mode

Do you know that...

**EQUS** means **HORSE**  
in Latin: a symbol of  
strength and durability.

## Key Technical Parameters

Model	EQUS
Connection method	Direct
Rated voltage $U_n$	3 x230/400 V
Reference current $I_{ref}$	5, 10, 15 or 20 A
Maximum current $I_{max}$	40, 60, 80 or 100 A
Accuracy class for active energy	A or B
Accuracy class for reactive energy	2 or 3
Power consumption in the current circuit	<0,2 VA
Power consumption in the voltage circuit	<0,7 W / <1 VA
Insulation	4 (AC 50 Hz), 6 (surge 1,2/50 $\mu$ s) kV
Meter constant	640 or 1280 [imp/kWh]
Clock	Internal RTC, accuracy not lower than 0.5 s/24 h at 23°C, synchronised with the AMR system
Communication	Optical port, baud rate configurable from 300 to 19200 Bd Built-in RS-485 serial port Interchangeable communication module: PLC, GSM Protocol support: comprehensive proprietary protocol dedicated for AMI systems, EN 62056-21 (IEC1107) Infrared port (RC5)
Inputs and outputs	2 pulse inputs or outputs, two relay outputs
Event logging	Billing period closing, power loss and return, current and power overload, RTC synchronisation, changed calendar configuration, unauthorized removal of the terminal cover, magnetic field tampering with date and time stamp
Display	Dedicated LCD
Operating temperature	-40°C to +70°C
Housing	II protection class
Ingress protection rating	IP54
Standards	MID (B+D) EN 50470



Type designation

EQUS 23 A PC