



UNIVERSAL CURRENT CONVERTER AC/DC Current Analyzer **QE-CURRENT-485**



The QE-CURRENT-485 is the first **ALL IN ONE CURRENT CONVERTER / CURRENT ANALYZER** of the market.

One DIN rail size, suitable for electric distribution boxes, allow you to measure the values of CURRENT measured by all the isolated primary current sensor available on the market. **Analog output and RS485 Modbus RTU available. One free contact included**

POWER SUPPLY 10...30 Vdc, Protection against polarity reversal and overtemperature.

ABSORPTION 2,5 VA max

INPUT

CURRENT SENSORS :

- **ROGOWSKI probes;**
- **CURRENT TRANSFORMERS secondary 1A / 5A;**
- **CURRENT TRASDUCERS secondary +/-10V pk or +/- 1 V pk;**
- **CURRENT TRASDUCERS with secondary 100mA ac/dc;**
- **HALL'S EFFECT, included its Power supply (+/-15V dc)**

TEMPERATURE :

PT100 2-3 wires or NTC (10k ohm/ 100k ohm);

ACCURACY * for 1A / 5A Current Transformers input CURRENT*:

0,01 In < I < 0,05 In : +/- 1 %

0,05 In < I < Imax : +/- 0,5%

TEMPERATURE : 0,2 % f.s. for PT100

SAMPLING RATE 6400 Hz @ 50Hz

THERMAL DRIFT < 100ppm/°C

HARMONIC ANALYSIS Up to 63rd (Available on QE-CURRENT-485-H version)

OUTPUT

- **RS485 MODBUS RTU**
- **0...10V / 0...20mA (fully configurable)**
- **Free contact 50mA max, 30 Vdc**

ANALOG OUTPUT ACCURACY < 0,1% F.S.

BAUDRATE from 1200...115200 Baud (default 9600)

GENERAL

WORKING TEMPERATURE -10°C... +60°C

HUMIDITY 10...90% not condensing

PROTECTION INDEX IP20

STANDARDS CE EN61000-6-3; EN61000-4-2; EN61000-4-3; EN61000-4-4; EN61000-4-5; EN61000-4-6 ; EN61010-1

TERMINALS n°10 Removable terminals 3,5mm

DIMENSIONS 93x17,7x 68,3 mm (terminal excluded)

MOUNTING Ready to be mounted on Din rail bus

Measurement available:

- **I_{rms}, I_{dc}, I_{ac}**
- **I_{rms} max, I_{rms} min, I_{rms} average**
- **I_{dc} max, I_{dc} min, I_{dc} average**
- **I_{ac} max, I_{ac} min, I_{ac} average**
- **Ah on I_{rms}, Ah on I_{dc}, Ah on I_{ac}**
- **Frequency**
- **Crest Factor**
- **Temperature**
- **Resistance**

More measurement available with QE-CURRENT-485-H version:

- **THD**
- **I_{peak}**
- **Harmonic analysis up to 63rd**
- **Temperature of the device (Panel temperature)**

Available in two different versions:

QE-CURRENT-485 : Current Converter, Analog Output and RS485 Modbus; RMS, AC and DC measurement, min Max and Average measurement, Frequency and Crest factor measurement. Temperature and resistance measurement

QE-CURRENT-485-H : Current Converter and Analyzer, Analog Output, RS485 Modbus. Harmonic analysis up to 63rd option included, THD, I peak and Internal Temperature measurement (to check the temperature of the panel).

ALTITUDINE Up to 2000 m s.l.m.

WEIGHT 55 gr.

PLASTIC CASE PBT, grey

DIP-SWITCH 2 poles (Baudrate and Address) for configuration by FACILE QE-CURRENT-485

LED N°5: Power on (green), Comm (yellow), TX and RX (red), Digital output (green).

CONFIGURATION By free interface software FACILE QE-CURRENT-485 or by RS485 Modbus register map

UNIVERSAL CURRENT CONVERTER
AC/DC Current Analyzer **QE-CURRENT-485**





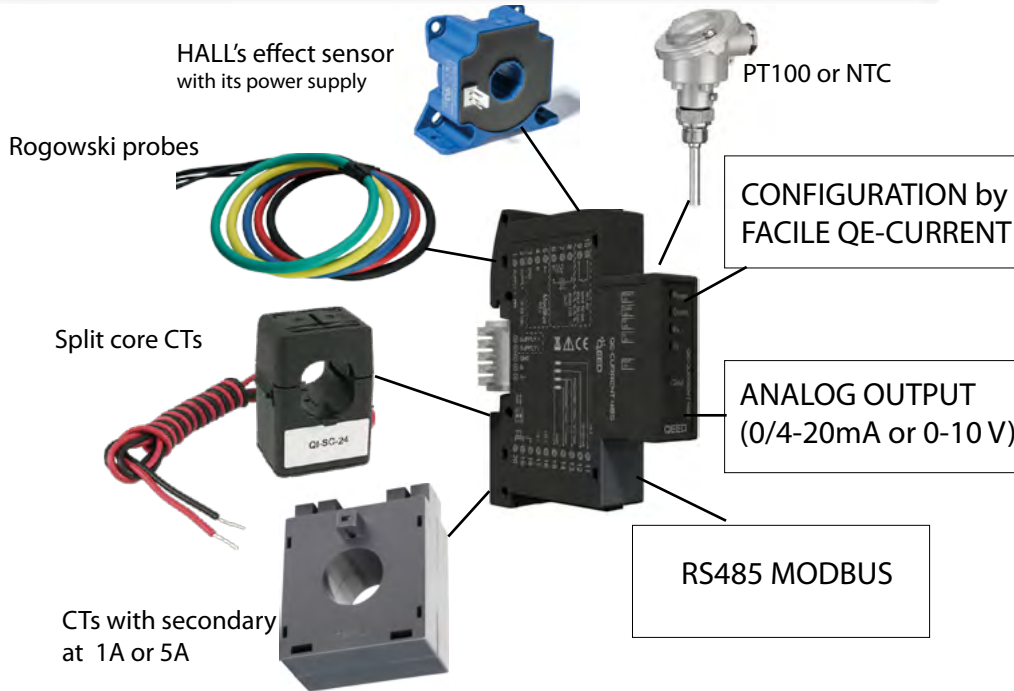
QEED

QUALITY ELECTRONIC DESIGN

QEED
WWW.QEED.IT
INFO@QEED.IT

D.E.M. S.p.A.
WWW.DEM-IT.COM

UNIVERSAL CURRENT CONVERTER AC/DC Current Analyzer **QE-CURRENT-485**



CONNECTIONS :



Free Interface software FACILE QE-CURRENT-485 available for the configuration of the device or direct by RS485 Modbus registers.

Power Supply and RS485 connection can be made by TBUS connector (option) mounted on the base of the modules.



WATER INDUSTRIES



PF CORRECTION



STEEL MILLS



PAPER MILLS



ELECTRIC POWER
DISTRIBUTION SYSTEM



MOTORS

The first universal Current Analyzer of the market!

UNIVERSAL CURRENT CONVERTER
AC/DC Current Analyzer **QE-CURRENT-485**

