



# 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<sub>rms</sub>, I<sub>dc</sub>, I<sub>ac</sub>**
- **I<sub>rms</sub> max, I<sub>rms</sub> min, I<sub>rms</sub> average**
- **I<sub>dc</sub> max, I<sub>dc</sub> min, I<sub>dc</sub> average**
- **I<sub>ac</sub> max, I<sub>ac</sub> min, I<sub>ac</sub> average**
- **Ah on I<sub>rms</sub>, Ah on I<sub>dc</sub>, Ah on I<sub>ac</sub>**
- **Frequency**
- **Crest Factor**
- **Temperature**
- **Resistance**

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

- **THD**
- **I<sub>peak</sub>**
- **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).

**ALTITUDE** 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**





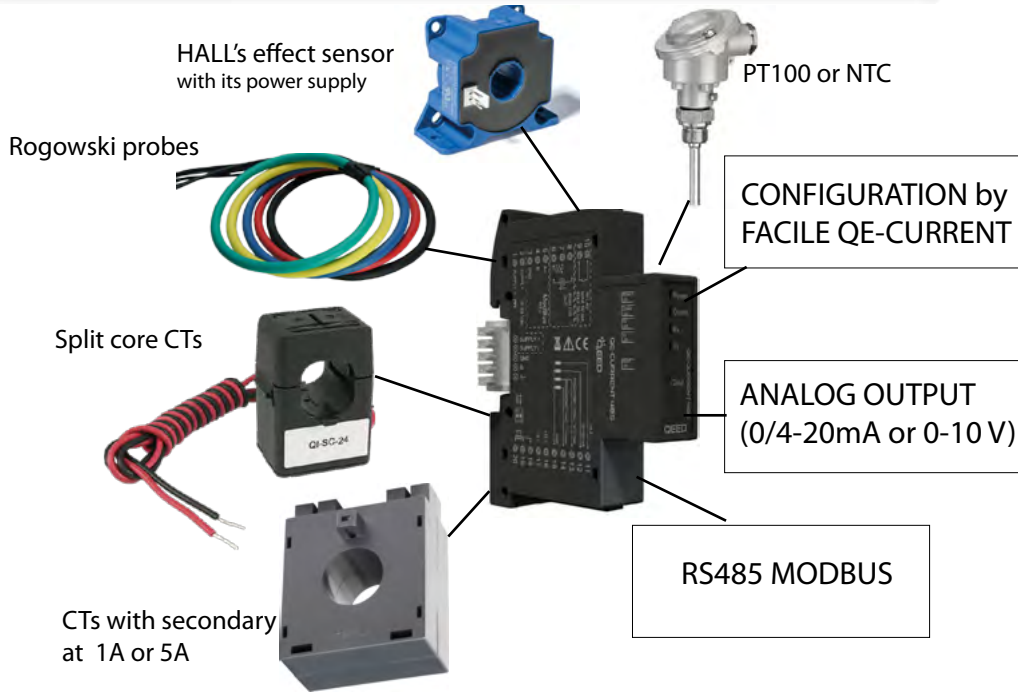
**QEED**

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**

