

FACILE QE-POWER-T

The FACILE QE-POWER-T software is the fastest way to configure the three phase power QE-POWER-T.

Download the software from our website

<http://www.qeed.it/category/software/?lang=en>

Update your Java if needed.

Connect the PC to the QE-POWER-T using a USB-RS485 converter (like the Q-USB485).

The software will give you all the steps for the connection.

Mind that the QE-POWER-T need to be switched off and on to charge the new configuration.



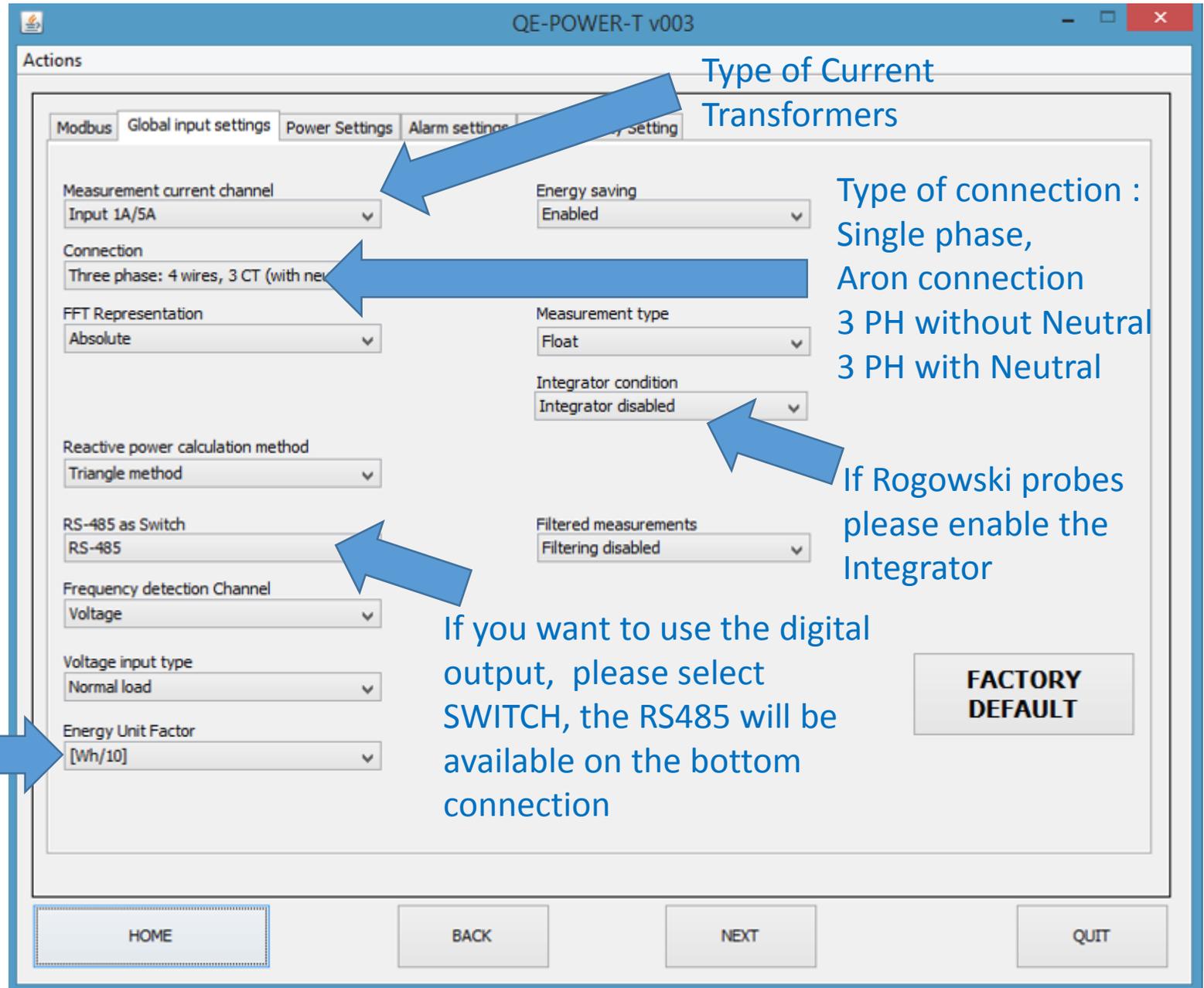
Modbus configuration parameters

Mind that, when you set the internal dip switch to 1 to connect the device to the PC by FACILE you are in the default mode: Address 1 , Baudrate 9600.

In this way, if you don't know the configuration of a QE-POWER-T already installed you can read it anytime using the default setting by dip switch 1 ON e choose LOAD CONFIGURATION FROM DEVICE on the FACILE main page

The screenshot shows the 'Actions' window of the QE-POWER-T v003 software. The 'Modbus' tab is selected, showing configuration parameters for Address (1), Delay (1), Parity (NONE), and Baud rate (9600). The 'REAL TIME CLOCK' settings are also visible, including YEAR (0), MONTH (JANUARY), DAY (1), HOUR (0), and MINUTE (0). There are three buttons for date/time operations: 'READ DATE/TIME FROM DEVICE', 'SEND DATE/TIME TO DEVICE', and 'SYNCHRONIZES PC DATE/TIME WITH DEVICE'. A 'FACTORY DEFAULT' button is located at the bottom right. The bottom navigation bar includes 'HOME', 'BACK', 'NEXT', and 'QUIT' buttons.

REAL TIME CLOCK settings for PLUS and PRO versions



Type of Current Transformers

Type of connection :
Single phase,
Aron connection
3 PH without Neutral
3 PH with Neutral

If Rogowski probes
please enable the
Integrator

If you want to use the digital
output, please select
SWITCH, the RS485 will be
available on the bottom
connection

Select the scale for the energy registers:
Wh/10 -> reading 10001 = 1000,1 Wh = 1,0001 KWh
Wh -> reading 10001 = 10001 Wh = 10,001 KWh
KWh -> reading 10001 = 10001 KWh



CT Ratio

For Current secondary:
Primary / Secondary
(E.g. : 100 A / 5 A = 20)
Put 20

For Voltage secondary:
Amp (primary)/ Volt (secondary)
(E.g. : 100 A / 0,333V= 300,3)
Put 300,3

For Rogowski probe use the Sensitivity:
1000 A / 100mV = 10.000
Put 10000

The screenshot shows the 'Actions' menu in the QE-POWER-T v003 software. The 'Power Settings' tab is active, displaying several configuration options:

- CT Transducer ratio:** Set to 1.0. A blue arrow points to this field from the text on the left.
- CT Transducer delay (°):** Set to 0.
- VT Transducer ratio:** Set to 1.
- VT Transducer delay (°):** Set to 0.
- DC Filter:** Set to 10.
- AC Filter:** Set to 50.
- minute_for_Max_demand (0-60):** Set to 0.
- Power Threshold exceedings:** Set to 0.
- seconds_for_mean_RMS (0-30):** Set to 0.
- seconds_for_MAX_RMS (1-30):** Set to 1.
- seconds_for_min_RMS (1-30):** Set to 1.
- Min voltage ripple (V):** Set to 0.
- Minimum current ripple (A):** Set to 0.
- Minimum power ripple (W):** Set to 0.

At the bottom right, there is a **FACTORY DEFAULT** button. At the bottom of the window, there are navigation buttons: HOME, BACK, NEXT, and QUIT.

Recover the phase displacement introduced by current transformers

CUT-OFF function

The ALARM SETTINGS page allow you to set the FAIL LED light linked to some specific event.

Please mind that it is only a LED setting. To connect the digital output to the event or threshold you have to set the right side of this page

QE-POWER-T v003

Actions

Modbus Global input settings Power Settings Alarm settings Power Quality Setting

FAIL EEPROM

Phase reversal

I1 Over-range

I1 Under-range

I2 Over-range

I2 Under-range

I3 Over-range

I3 Under-range

V1 Over-range

V1 Under-range

V2 Over-range

V2 Under-range

V3 Over-range

V3 Under-range

ATTENTION!
Shown only by FAIL LED on device

Alarm linked to digital output

Alarm address
V_L1_N

MORE THAN A THRESHOLD

Alarm Threshold
0

Alarm Hysteresis
0

Alarm Threshold 2
0

FACTORY DEFAULT

HOME BACK NEXT QUIT

Choose the parameter

Set the type of threshold

Fix the threshold level and hysteresys

QE-POWER-T v003

Actions

Modbus Global input settings Power Settings Alarm settings Power Quality Setting

Nominal Star Voltage V

Minimum duration cutoff ms

Sag level V

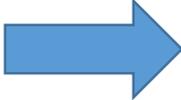
Swell level V

Interruption level V

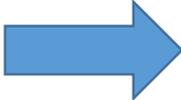
Parameter are entered correct!

HOME BACK NEXT QUIT

nominal voltage level

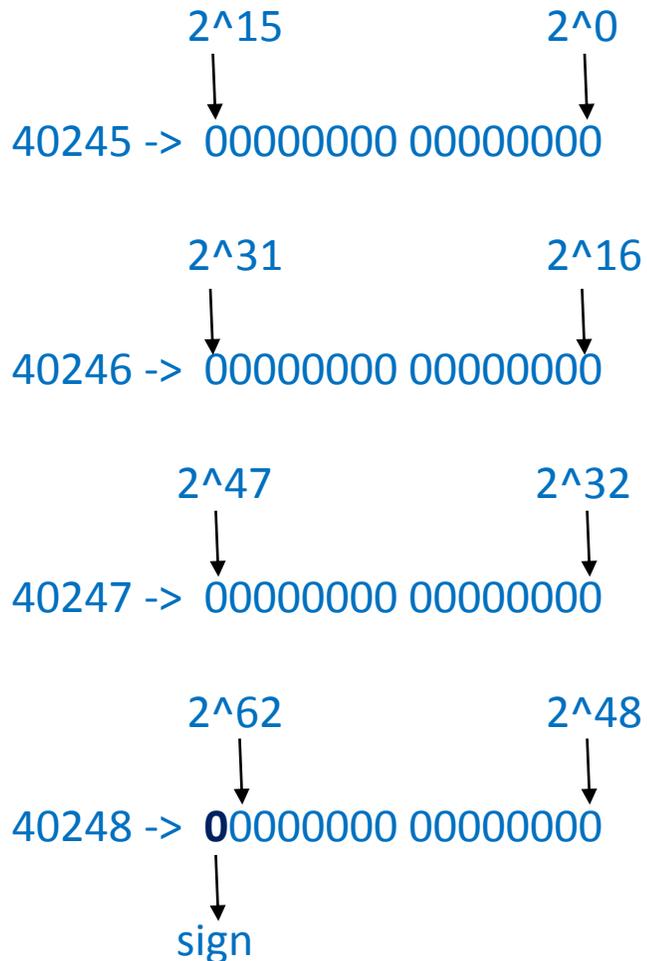


set the thresholds
SAG, SWELL and
INTERRUPTIONS



Energy registers notes :

taking as example the KWh1 totalizer (register 40245) , each one are SIGNED LONG LONG (64 bit)



If the master device can't manage LONG LONG registers is possible manage only the first two register (for each totalizer) as LONG format after to have set the unit factor to KWh (recommended).

Mind that the measure will be without sign and near the maximum value recordable ($\approx 4,2 \times 10^9$) must to be export the value and reset the totalizer.

There isn't the direct reset for the totalizers, to do it, write zero into all of them and save the value writing 0XBABA in 40244 register.