

v1.01 | 19.02.2020

Top bar of the display

General correctness

- ✗ if the table of **Parameter correctness** includes is at least one ✗
- ? if the table of **Parameter correctness** includes is at least one ?, but there is no error (no ✗)
- ✓ if all measured parameters in the table of **Parameter correctness** are correct

1	2	3	4	5	6	7	8
16:59:20	2016-07-20	H	✓	▶	F-x	3.7 GB free	🔌
1 Current date and time	2 Hold/continue button of display refreshing	3 Parameter Correctness	4 Recording status	5 Actual current probes connected	6 Free memory on SD card	7 USB stick status	8 Battery status and external supply

Measuring inputs

Currents - 4 channels
Flexible: **Fx(A): 1...3000 A**
CT: **C-4: 1...1000 A**
C-6: 0.01...10 A
C-7: 0.1...100 A

Voltages - 5 channels
L1, L2, L3, N, PE
AC: **MAX 760 V_{RMS}**
DC: **±1150 V**
referred to protective earth terminal (PE)

External power supply

DC supply input
12 V ± 10%
max. 2.5 A

Power adapter input 12VDC

USB slot for PC connection

USB slot for pendrive

Recording START button

Recording / charging LED indicator

External power supply
CAT II 300 V
100...240 V AC, 50...60 Hz
12 V 2.5 A DC

Cover

microSD card slot

Current clamp inputs L1, L2, L3, N

Voltage measurement inputs L1, L2, L3, N, PE

START

ON/OFF button

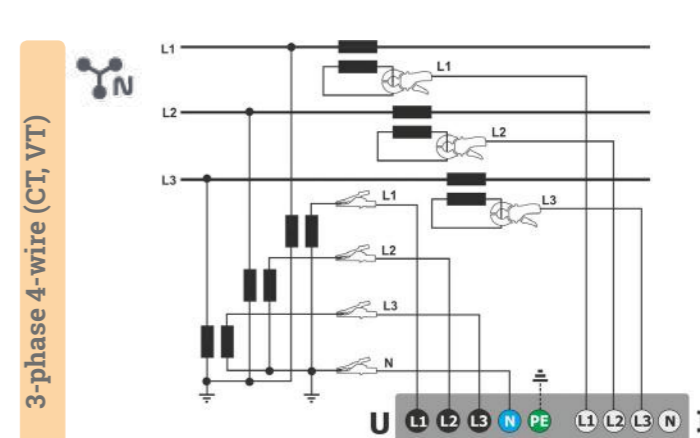
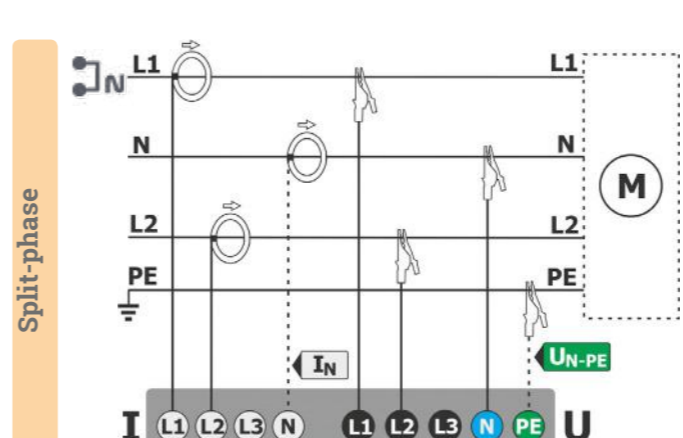
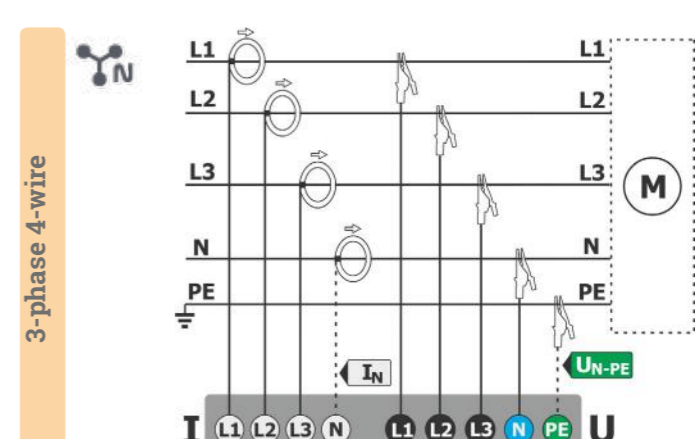
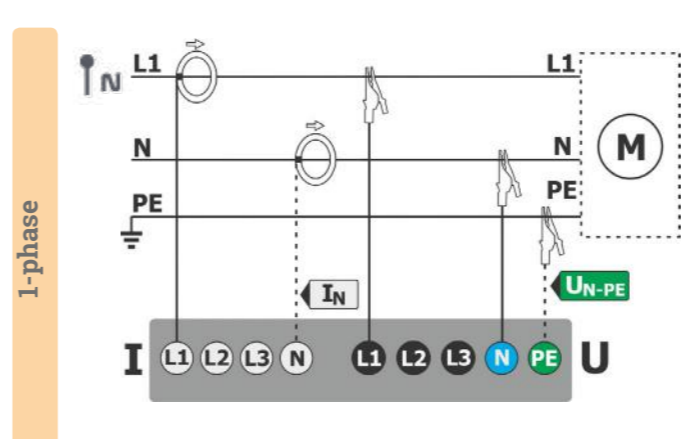
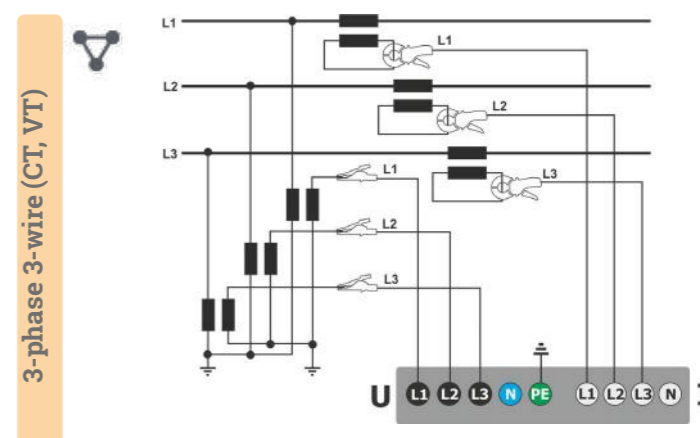
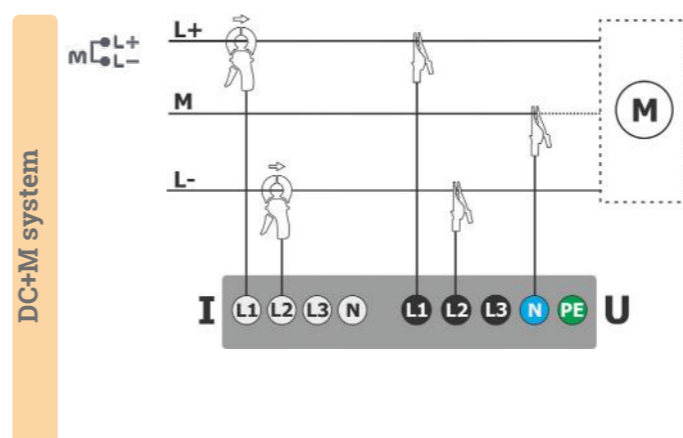
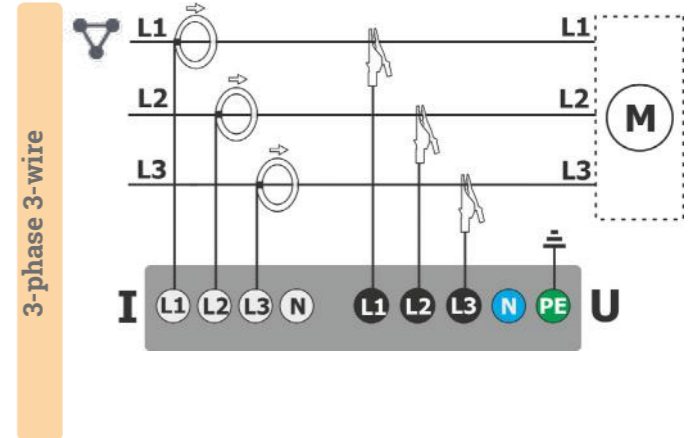
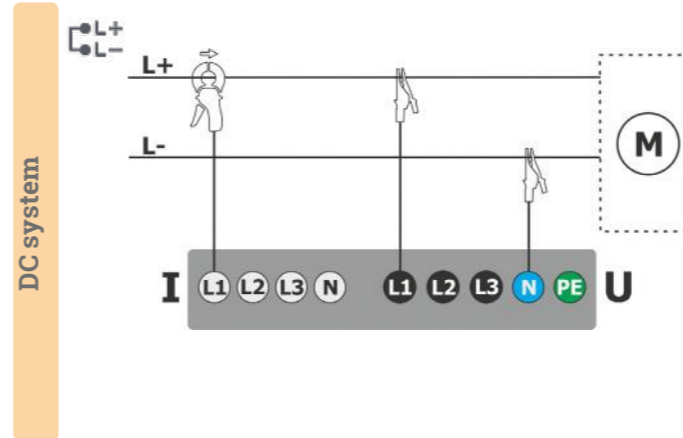
Sonel PQM-707

Battery

Li-Ion BATTERY

11.1 V
3.4 Ah

1. Remove the battery cover.
2. Insert the battery into the compartment.
3. Close the battery cover.



1 Select a configuration from list

Select configuration from list

Set configuration as active

2 Connect signals

3 Start recording

Press **START/STOP**

LED starts to blink **RED**

Status icon changes color to **red**

Buzzer signals are heard: 3 short signals

4 Stop recording

Press **START/STOP**

LED does not blink anymore

Status icon changes color to **green**

Buzzer signals are heard: 1 long + 3 short signals

1 Configure the measurement

- Connection of the meter
 - Configuration of
 - mains system
 - frequency
 - probes type
 - measurement duration
 - nominal current and trigger threshold
- Wait for automatic threshold value
- Wait for end of recording

2 Record

Analyse waveform plot

- menu bar
- waveform
- RMS plot
- characteristics

Before measurement adjust settings

- General settings (I and II)
- Voltage parameters
- Current parameters
- Power parameters
- Energy and factors
- Flicker and unbalance
- THD and harmonics
- Save over own name and select as active

Parameters correctness

- Voltage values ✓
- Current values ✓
- Voltage phasors ✓
- Current phasors ✓
- Frequency ✓

Analyzer settings

Hardware settings	Settings	Managers
1 Date and time	Regional settings	5 User data
2 Clamps	3 Power saving	Startup screen
Memory	4 Security	Display
		Standards
		Files
		Upgrades

1 Set date and time

- YYYY-MM-DD or MM/DD/YYYY
- hh:mm:ss

2 Set current probe direction

3 Power saving

- Instantaneous auto-off mode
- Instrument auto-off mode

4 Security

- Set lock analyzer PIN

5 User data

- User specification, contact and address

1 List of recorded measurements

Select a measurement file from list

Analysis of the selected recording

2 Recording summary window

go to list of events

go to plots

- timeplots
- harmonics

go to standard report (only for configuration acc. to standard)

go to energy costs calculator (only for configuration acc. to user)

1 Configuration name

2 History of recording

3 Statistics of events

4 Statistics of Voltage and Amps measurement

Analysis of events

- Swells
- Dips (sags)
- Interruptions
- $I > \max$
- $I < \min$
- $U_{DC} > \max$
- $U_{DC} < \min$

Report according to standard

Before recording

User data

Enter personal information

Timeplot of trends

Set:

- start time
- duration
- end time

After recording

Enter report settings

Bargraph of harmonics

Energy cost calculator