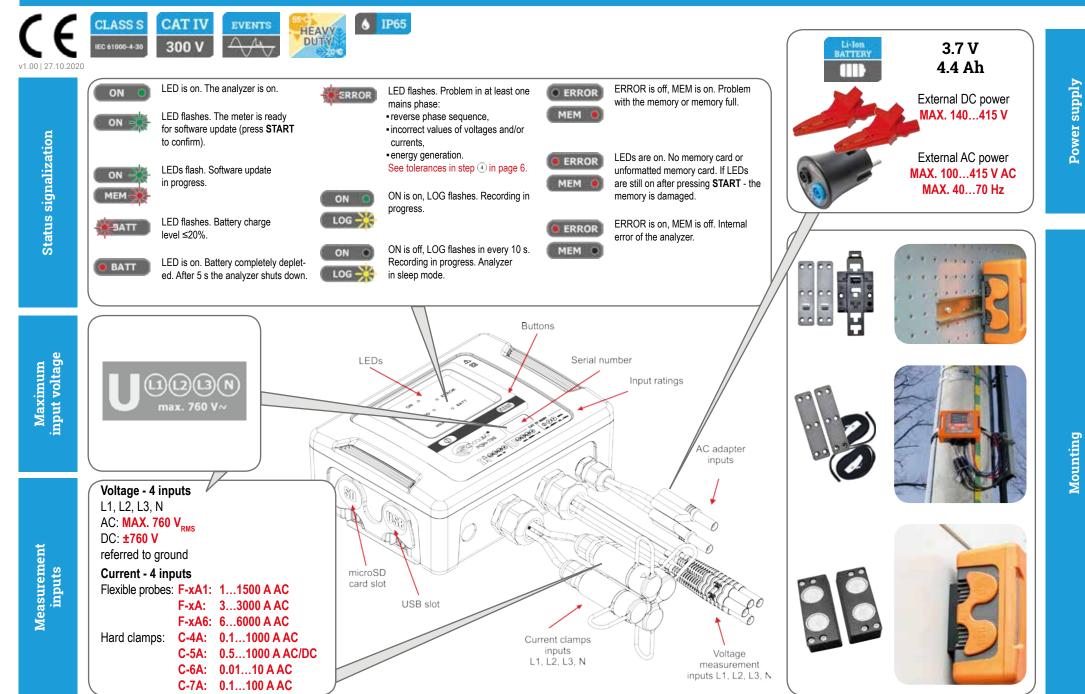
Sonel PQM-700

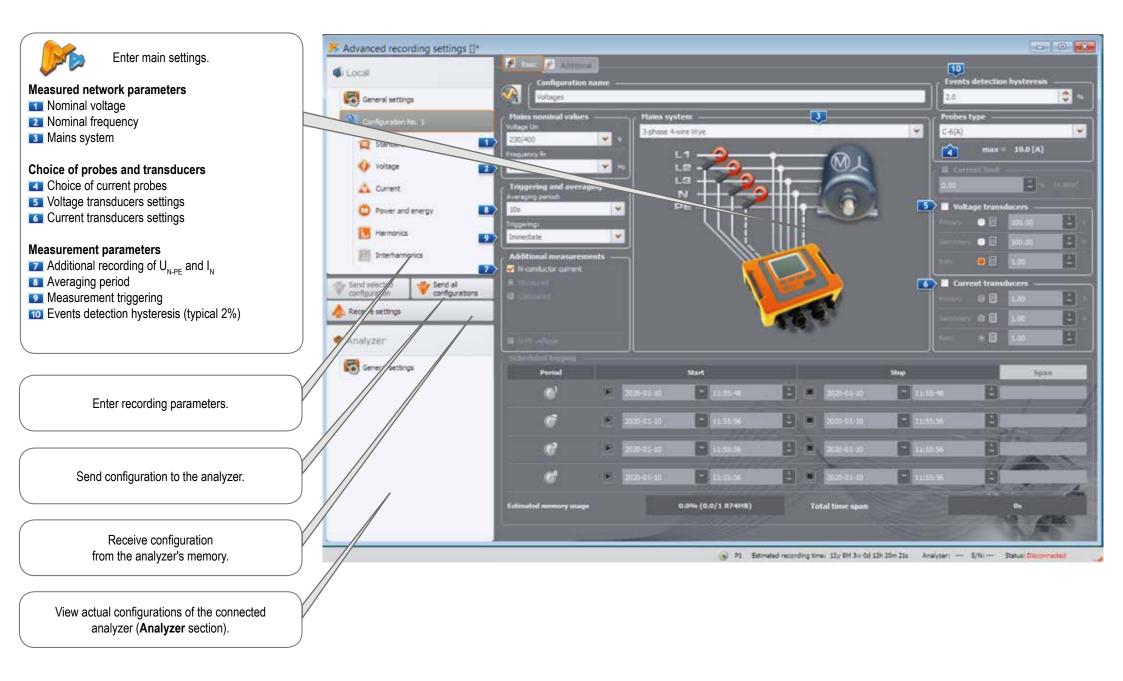




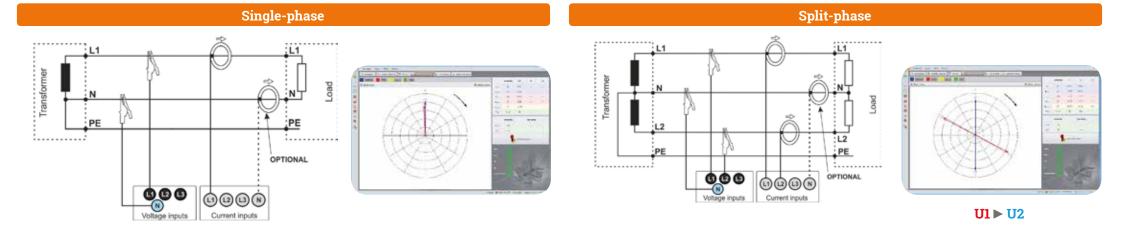
Three steps to get results

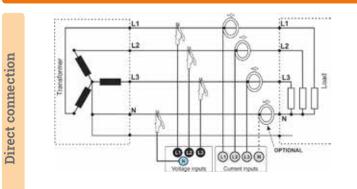
1 Prepare measurement configuration and send it to the meter ▶ page 2	Method 1. Choose a function requiring analyzer connection
Send all configurations	Options Window Help Image: Startup window F2 Image: Startup window F3 Image: Startup window F4 Image:
Install the analyzer and start the measurement ► page 6 Image: A start the measurement ► page 6	Analyzer connection window will appear. • Choose the desired analyzer. • Press Select. • Enter PIN code (default: 000).
3 Analyze the recorded data ► page 8	Method 2. Choose desired analyzer from the database
Analysis	Control No. Analyzer type Serial number Analyzer database 1 PQM-700 AZ0025
	Analyzer database Add Edit Remove Connect selected Connect selected page 2/12

Getting started | Connecting the analyzer

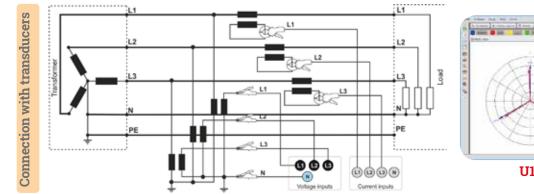


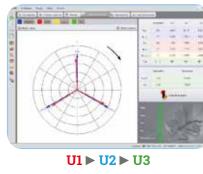
Getting started | Choosing the mains system

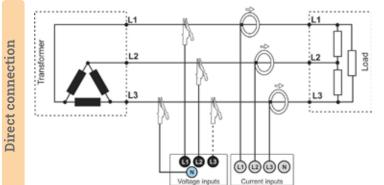




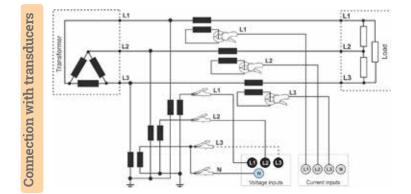
3-phase 4-wire (WYE with a neutral conductor)

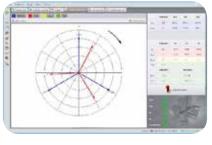






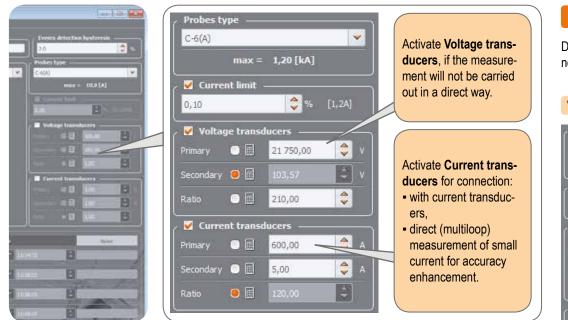
3-phase 3-wire (Delta)





U12 ► **U23** ► U31

Getting started | Adjusting transducer settings

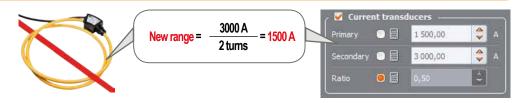


Direct current measurement - enhanced accuracy

The use of a current transmission in direct connection enhances probe sensitivity for small signal measurement. It decreases the upper measuring range according to the formula:

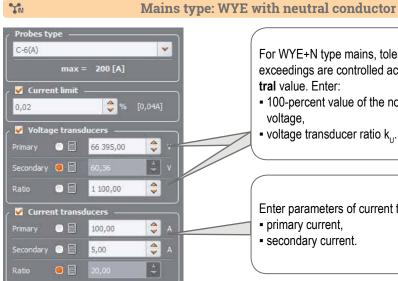
New range = Nominal probe range no. of turns and deepens the lower measuring range. It increases the accuracy and operating range of the probe. C-7A probe • nominal range 100 A • no. of turns = 5 Current transducers – 100 A 20,00 = 20 A New range = 5 turns Secondary 💿 🧮 100,00

F-1A probe • nominal range 3000 A • no. of turns = 2



Measurement with transducers

Depending on the type of measured network (WYE with neutral / Delta), enter transducers' parameters and the nominal level of exceedings control.



2

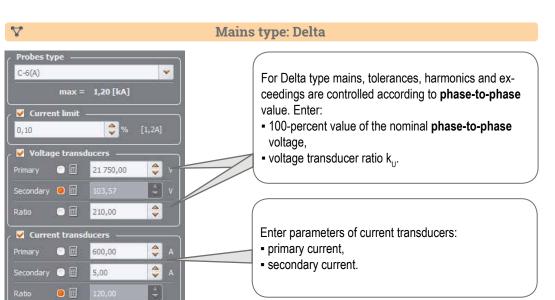
\$

4

For WYE+N type mains, tolerances, harmonics and exceedings are controlled according to phase-to-neutral value. Enter:

- 100-percent value of the nominal phase-to-neutral voltage.
- voltage transducer ratio k...

Enter parameters of current transducers: primary current, - secondary current.



Measurements

Mount the analyzer



Upload the configuration to the analyzer

Create a measurement configuration and upload it to the analyzer using Sonel Analysis software.

Send all configurations

Connect the analyzer to the network acc. to the configuration

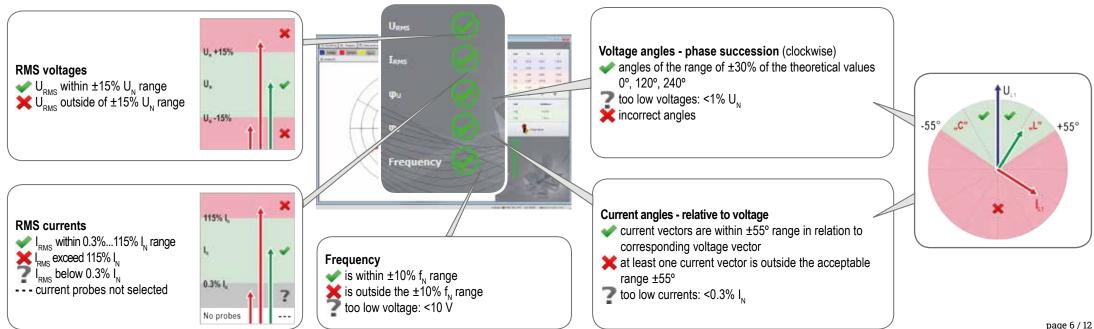




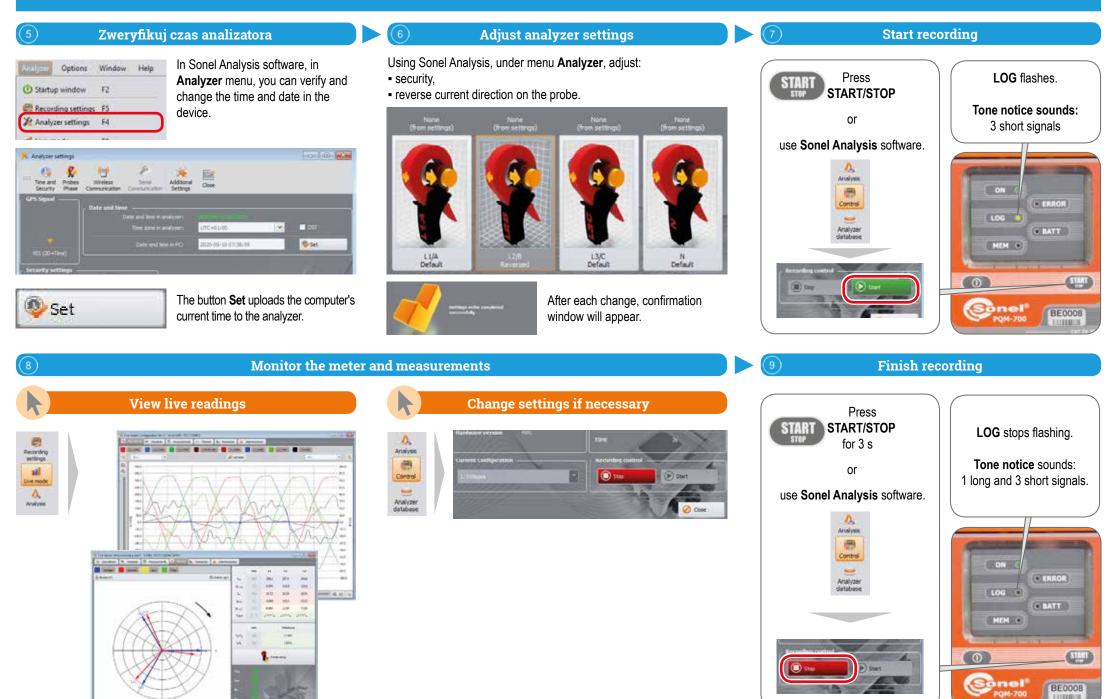
Arrows on all clamps have to be pointed towards the electrical load. • Pay close attention to connecting the analyzer in

systems with transducers. In these systems, C-6A clamps will be useful - they are dedicated to measure current at transducers.

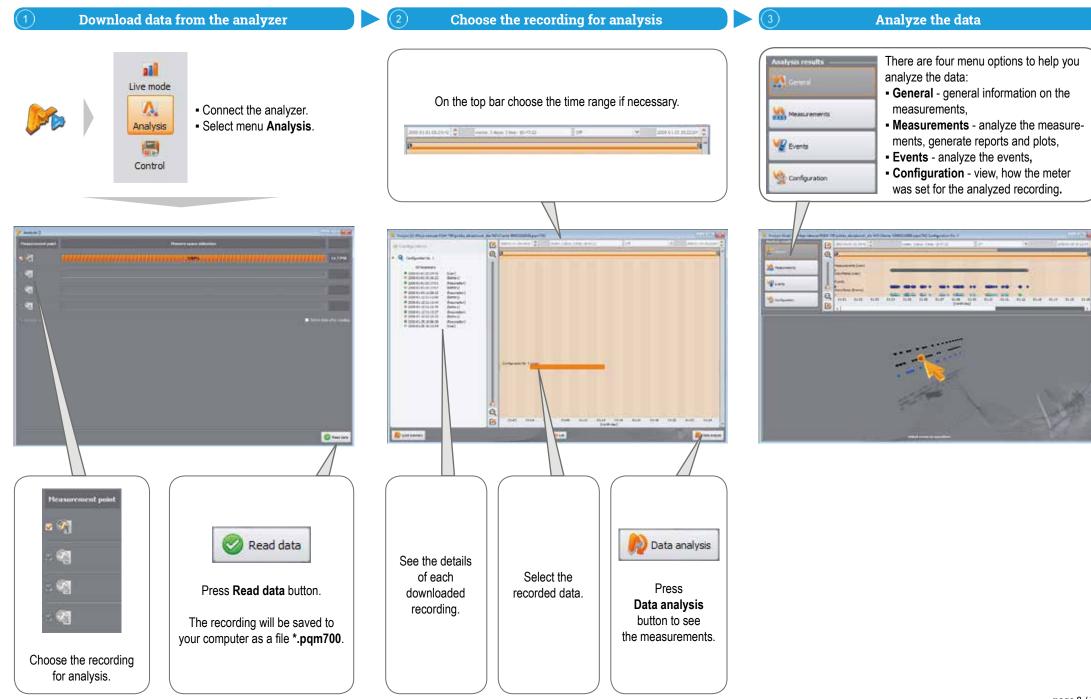
Check the network status and the analyzer connection status

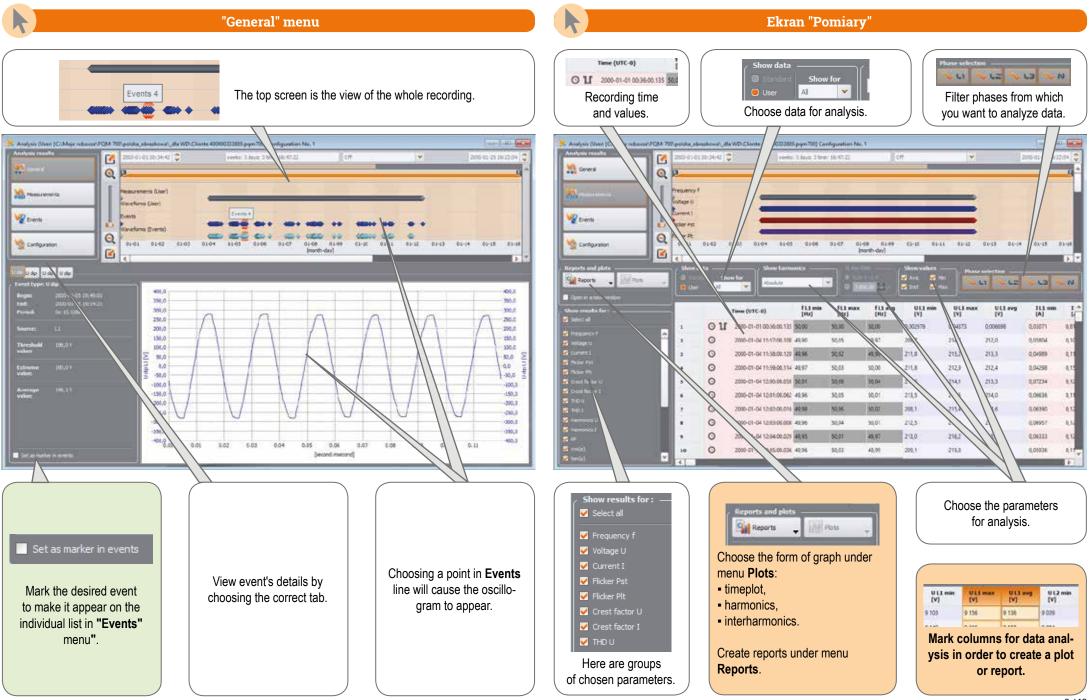


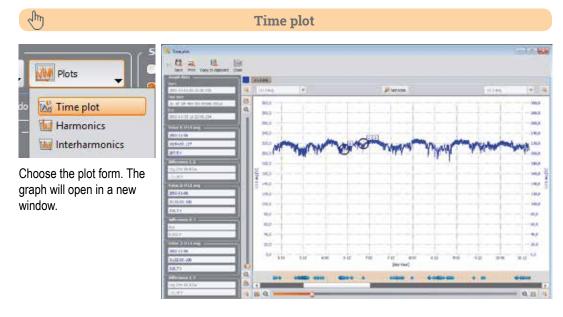
Measurements



page 7 / 12





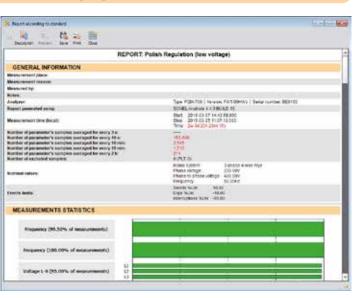


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If the recording was made to verify compliance with a particular standard, choose **Report according to standard**, to create appropriate report.

Creating reports



Jun J

Harmonics and interharmonics

Plots

interharmonics.

Sulling. 3,460 5,80 1,311 1.000 2.80 1 inte 1.00 1.80 2.84 1.00 1.00 8.4.2 9.0



2mg

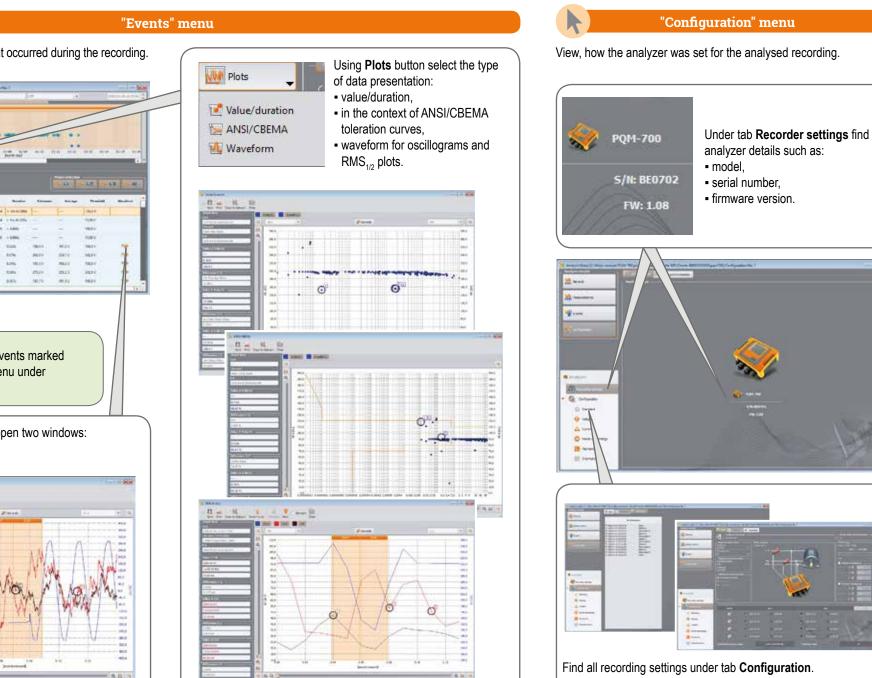
-110.044

You can also export data directly to CSV file.

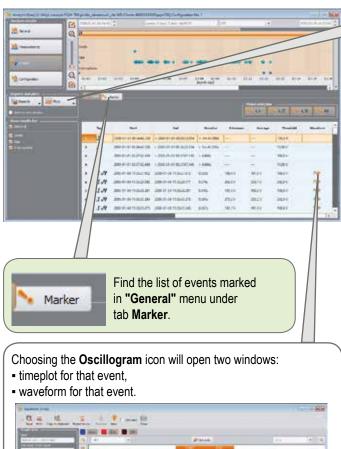
Data export to CSV file

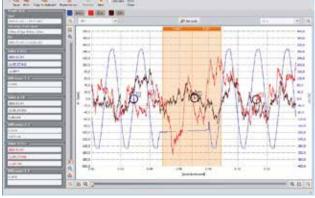
BASE (F:) +PQM	 Text database 	
Nazwa	Тур	Data mor
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Measurement 2	Microsoft Excel Comma Separated Values File	2019-05-
Measurement 3	Microsoft Excel Comma Separated Values File	2019-05-

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This menu contains the list of events that occurred during the recording.









Find more information in the user manual and on our website www.sonel.pl/en