

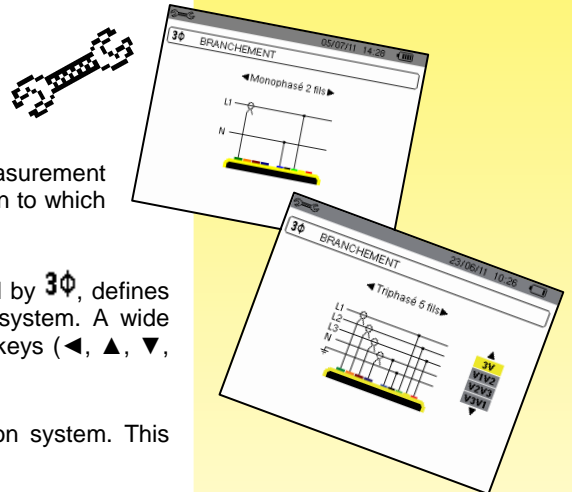
For your diverse electrical installations

Technical documentation
QualistarPlus connections

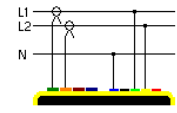
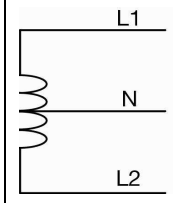
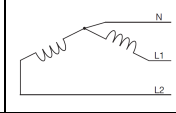
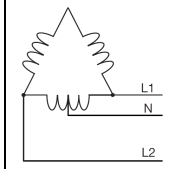
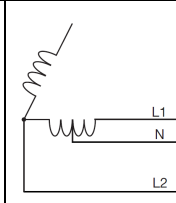
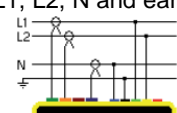
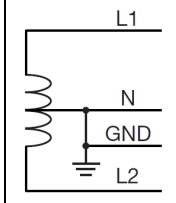
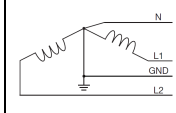
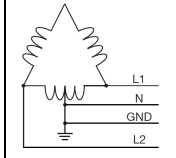
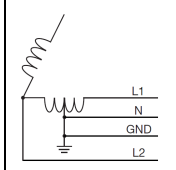
Depending on the available power supply, the loads to be supplied and the necessary power levels, various sorts of set-ups have been developed and are now in use. These configurations are characterized by the number of phases and the presence or absence of neutral and earth conductors. The QualistarPlus models offer all the necessary measurement and calculation methods. It is up to users to select the electrical installation to which the instrument will be connected.

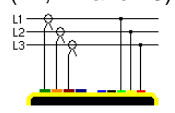
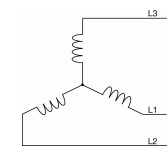
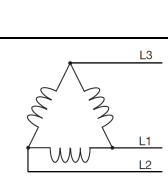
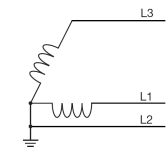
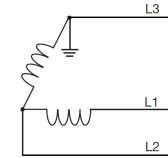
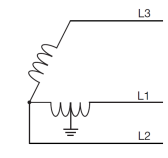
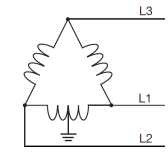

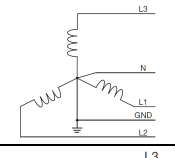
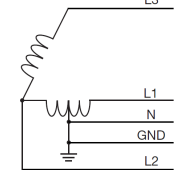
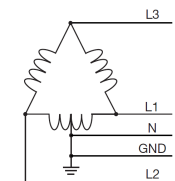
In the instrument's configuration menu, the connection menu, symbolized by 3Φ , defines the type of connection for the instrument according to the distribution system. A wide range of different electrical set-ups can be selected. Use the navigation keys (\leftarrow , \blacktriangle , \blacktriangledown , \blacktriangleright) to choose a type of connection.

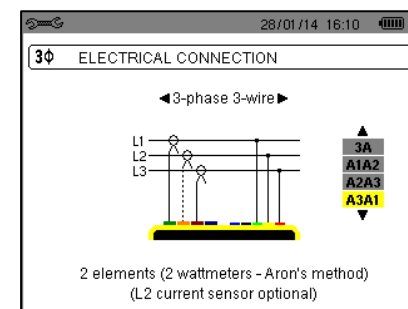
There are one or more network types corresponding to each distribution system. This means the instrument can be hooked up to all existing networks.




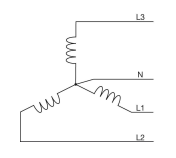
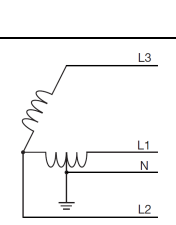
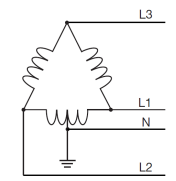
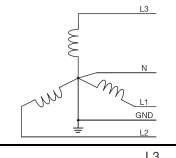

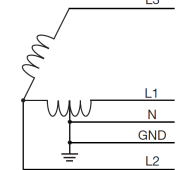
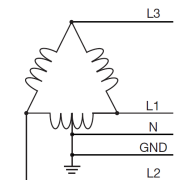
Distribution system	Network	Diagram
Single-phase 2-wire (L1 and N) 	Single-phase 2-wire network with neutral but without earth	
Single-phase 3-wire (L1, N and earth) 	Single-phase 2-wire network with neutral and earth	
Split-phase 2-wire (L1 and L2) 	Split-phase 2-wire network	
	3-phase 2-wire network in open star configuration	

Distribution system	Network	Diagram
Split-phase 3-wire (L1, L2 and N) 	Split-phase 3-wire network with neutral but no earth	
	Split-phase 3-wire network in open star configuration with neutral but no earth	
	Split-phase 3-wire network in "high leg" delta configuration with neutral but no earth	
	Split-phase 3-wire network in open "high leg" delta configuration with neutral but no earth	
Split-phase 4-wire (L1, L2, N and earth) 	Split-phase 4-wire network with neutral and earth	
	Split-phase 4-wire network in open star configuration with neutral and earth	
	3-phase 4-wire network in "high leg" delta configuration with neutral and earth	
	3-phase 4-wire network in open "high leg" delta configuration with neutral and earth	

Distribution system	Network	Diagram
3-phase 3-wire (L1, L2 and L3)  <p>If needed, indicate the 2 current sensors which will be connected: A1 and A2, or A2 and A3, or A3 and A1.</p>	3-phase 3-wire network in delta configuration	
	3-phase 3-wire network in open delta configuration	
	3-phase 3-wire network in delta configuration with connection to earth between phases	
	3-phase 3-wire network in open delta configuration with connection to earth on the phase	
	3-phase 3-wire network in open "high leg" delta configuration	
	3-phase 3-wire network in delta configuration	
3-phase 3-wire (L1, L2, L3, N and earth) 	3-phase 3-wire network in open "high leg" delta configuration	
	3-phase 3-wire network in delta configuration	
	3-phase 3-wire network in delta configuration	



Note: In the case of a three-phase network, it is not mandatory to connect all the terminals for currents. More particularly, on a 3-wire 3-phase installation (ARON), the measurement is performed with only 2 sensors for the current part. The third is optional.

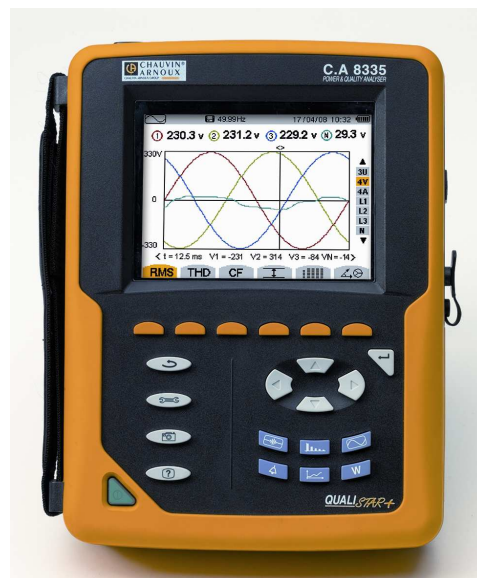
Distribution system	Network	Diagram
3-phase 4-wire (L1, L2, L3 and N)  <p>Indicate the voltages to be connected: all 3 voltages (3V) or only 2 (V1 and V2, or V2 and V3, or V3 and V1).</p>	3-phase 4-wire network with neutral but no earth	
	3-phase 4-wire network in open "high leg" delta configuration with neutral but no earth	
	3-phase 4-wire network in "high leg" delta configuration with neutral but no earth	
	3-phase 5-wire network in star configuration with earth and neutral	
3-phase 5-wire (L1, L2, L3, N and earth)  <p>Indicate the voltages to be connected: all 3 voltages (3V) or only 2 (V1 and V2, or V2 and V3, or V3 and V1).</p>	3-phase 5-wire network in open "high leg" delta configuration with earth and neutral	
	3-phase 5-wire network in delta configuration with earth and neutral	

Remarque : It is not possible to select a new connection set-up if the instrument is recording, metering energy, searching for transients, indicating an alarm and/or acquiring an inrush current.

Power & Quality Analyser C.A 8336 / C.A 8335 V4 / C.A 8435 V4

The C.A 8335, C.A 8336 and C.A 8435 QualistarPlus are synonymous with simplicity, high-performance, versatility and powerful analysis. They offer all the necessary functions with specifications usually reserved for top-of-the-range laboratory instruments. These instruments are ideal for engineers and technicians seeking all the functions of an electrical network analyser in a portable, battery-powered instrument.

- Real-time waveform display (4 voltages and 4 currents)
- Voltage measurements on all installations up to 1,000 V
- Possibility of ratios for measurements up to 500 kV and 50 kA.
- Half-period RMS voltages and currents
- Particularly intuitive use
- Automatic recognition of the different current-sensor types
- Use on all types of electrical installations
- Integration of all the DC components
- Measurement, calculation and display of harmonics up to the fiftieth order, along with their phase data
- Calculation of Total Harmonic Distortion (THD)
- Display of phasor diagram
- Measurement of total and per-phase VA, W and var power values
- Measurement of total and per-phase VAh, Wh and varh energy values
- Calculation of energy values in oil-equivalent tonnes, BTUs, Joules, etc.
- Calculation of K and FHL factors
- Calculation of $\cos \varphi$ displacement power factor (DPF) and the power factor (PF)
- Captures up to 210 transients each lasting several μ seconds
- Calculation of PST and PLT flicker values
- Calculation of unbalance (current and voltage)
- Recording of inrush currents over periods of more than 10 minutes
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- Back-up and recording of screenshots (image and data)
- Genuine multilingual online help
- Software for data retrieval and real-time communication with a PC.
- Recording and export on PC.



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