

AR6

Three phase network and quality analyzer

Autonomy

It is the only portable analyzer that ensures 8 hours of battery life.

Battery	NiMH (Nickel Metal Hydride)
Voltage	6 V
Capacity	4,200 mAh
Charge time	2 ...2,5 h
Battery life while in use	4hrs with LCD on 8hrs with LCD off

Memory

It has an internal memory that can be extended if the user needs it, but the analyzer is capable of recording for years.

SD	Standard specification 1.10 Capability up to 32 GB
SDHC	Specification 2.0 Class 4 Minimum transfer speed 4MB/s Capability up to 32 GB

Low-pass filter

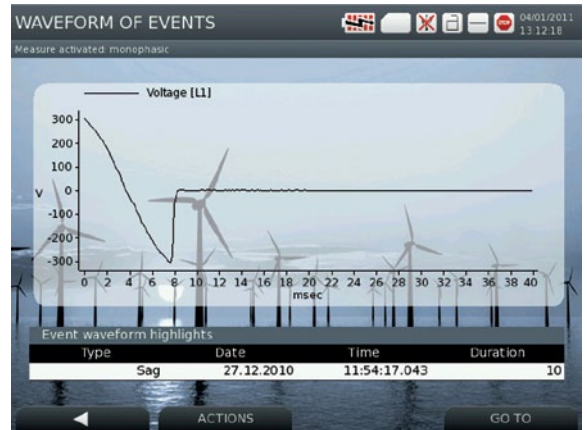
It includes the possibility of activating a low-pass filter to verify the difference in response and measurement between the immunized earth leakage relays and those that are not.

Photo capture

There is the possibility of activating the automatic photo capture. The photo records the waveforms of 9 channels and the instantaneous values of the main parameters.

To capture the photo, it's necessary to create trigger conditions comparing electrical values from one phase or all of them. It's possible to combine different conditions with "AND" and/or "OR" conditions to capture the photo.

After the configuration, the user can activate the conditions they require for every registration.



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Customizable and configurable

- The device allows the configuration of the number of decimals and units desired by the user for each variable.
- The user can select the background colour and colours for each phase according to regulations.

Multi circuit

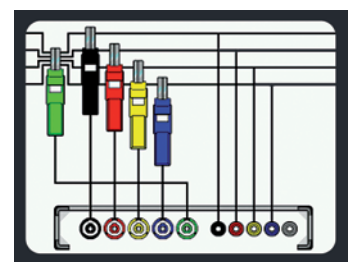
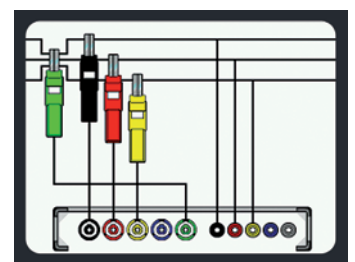
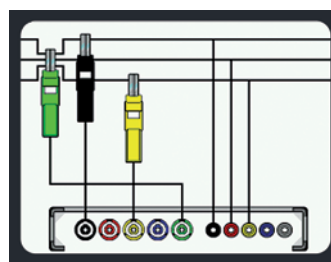
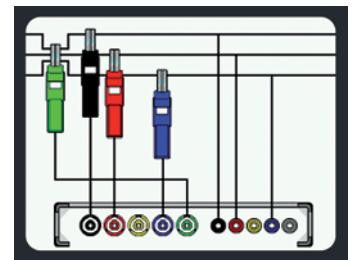
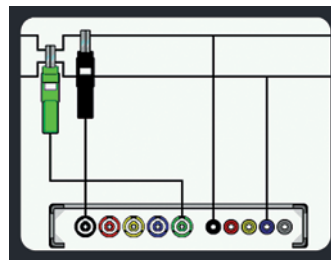
- Allows the configuration for a number of networks. Also shows every way of installing the current sensors according to the network selected. The options are single-phase, two-phase, aron, three-phase and three-phase with neutral.

Harmonic graphs

- The harmonics screen displays the amplitude value information of each harmonic.
- The user can scroll to select the desired harmonic to display in the below table the most important values of this harmonic.

Application

- With the **AR6** you can perform a full study of the electrical installation. It is possible to perform an analysis of consumption, load curves, voltage disturbances in the installation and to display waveshapes, study harmonics or measure flicker, as well as other options.



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References

Analyzer	Type	Code
AR6	AR6, Portable single and three-phase power analyzer	M82511

AR6 Clamps

AR6	Kit with 3 AM54-FLEX flexible 100-1000-10000 A clamps	M82532
AR6	Kit with 4 AM54-FLEX flexible 100-1000-10000 A clamps	M82533
AR6	CF-5 5 ampere leakage clamp	M81331
AR6	CF-10 10 ampere leakage clamp	M81334

Analyzer	Type	Code
AR6, case kit	AR6 (M82511) + Trolley transport case Kit	M82512
AR6, case kit CP Clamps	AR6 case Kit (M82512) + 3 CP-5 + 3 CP-2000/200 clamps	M82541
AR6, kit	Complete transport case kit and work cover that also includes a kit with 3 AM54-flex flexible clamps with built-in power supply.	M82522
AR6, kit	Complete transport case kit and work cover that also includes a kit with 4 AM54-flex flexible clamps with built-in power supply.	M82523

Accessories

See page M.8-38

Parameters measured

Parameter	L1	L2	L3	LN	LIII	LK	Max. / Min.
Phase-Neutral Voltage	Yes	Yes	Yes	Yes	Yes	-	Yes
Phase-Phase Voltage	Yes	Yes	Yes	-	Yes	-	Yes
Current	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Consumed Active Power	Yes	Yes	Yes	-	Yes	-	Yes
Consumed Inductive Power	Yes	Yes	Yes	-	Yes	-	Yes
Consumed Capacitive Power	Yes	Yes	Yes	-	Yes	-	Yes
Consumed Apparent Power	Yes	Yes	Yes	-	Yes	-	Yes
Consumed Power Factor	Yes	Yes	Yes	-	Yes	-	Yes
Cosine j Consumed	Y	Yes	Yes	-	Yes	-	Yes
Generated Active Power	Yes	Yes	Yes	-	Yes	-	Yes
Generated Inductive Power	Yes	Yes	Yes	-	Yes	-	Yes
Generated Capacitive Power	Yes	Yes	Yes	-	Yes	-	Yes
Generated Apparent Power	Yes	Yes	Yes	-	Yes	-	Yes
Generated Power Factor	Yes	Yes	Yes	-	Yes	-	Yes
Cosine j Generated	Yes	Yes	Yes	-	Yes	-	Yes
Crest factor	Yes	Yes	Yes	-	-	-	Yes
K - Factor	Yes	Yes	Yes	-	-	-	Yes
THD Voltage	Yes	Yes	Yes	Yes	-	-	Yes
THD Voltage even	Yes	Yes	Yes	Yes	-	-	Yes
THD Voltage odd	Yes	Yes	Yes	Yes	-	-	Yes
THD Current	Yes	Yes	Yes	Yes	-	-	Yes
THD Current even	Yes	Yes	Yes	Yes	-	-	Yes
THD Current odd	Yes	Yes	Yes	Yes	-	-	Yes
Flicker Inst. (WA)	Yes	Yes	Yes	Yes	-	-	-
PST Flicker	Yes	Yes	Yes	Yes	-	-	-
Frequency	Yes	-	-	-	-	-	Yes
Voltage Imbalance	-	-	-	-	Yes	-	Yes
Voltage Asymmetry	-	-	-	-	Yes	-	Yes
Current Imbalance	-	-	-	-	Yes	-	Yes
Current Asymmetry	-	-	-	-	Yes	-	Yes
Voltage Harmonics (1-50)	Yes	Yes	Yes	Yes	-	-	-
Current Harmonics (1-50)	Yes	Yes	Yes	Yes	-	-	-
Active Power Maximum Demand	-	-	-	-	Yes	-	-
Apparent Power Maximum Demand	-	-	-	-	Yes	-	-
Average current maximum demand	-	-	-	-	Yes	-	-
Maximum current demand L1, L2, L3	Yes	Yes	Yes	-	-	-	-
Active energy consumed	-	-	-	-	Yes	-	-
Consumed Inductive Energy	-	-	-	-	Yes	-	-
Consumed Capacitive Energy	-	-	-	-	Yes	-	-
Consumed Apparent Energy	-	-	-	-	Yes	-	-
Active energy generated	-	-	-	-	Yes	-	-
Generated Inductive Energy	-	-	-	-	Yes	-	-
Generated Capacitive Energy	-	-	-	-	Yes	-	-
Generated Apparent Energy	-	-	-	-	Yes	-	-
Wave shapes	Yes	Yes	Yes	Yes	Yes	Yes	-
Phasor representation	Yes	Yes	Yes	Yes	Yes	Yes	-

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Clamps	CF-5	CF-10	CP-5	CP-100	CPR-500	CPR-1000	CP-2000/200
Measurement range	1...1000 A ac	0.2 mA...10 A ac	0.05..0.5 A ac	1...100 A ac	1...500 A ac	1...1000 A ac	1...200 A ac 10...2000 A ac
Nominal frequency	48...65 Hz	48...65 Hz	48...65 Hz	48...65 Hz	48...65 Hz	48...65 Hz	48...65 Hz
Output voltage	2 V ac	2 V ac	2 V ac	2 V ac	2 V ac	2 V ac	2 V ac
Dielectric rigidity	5200 V, 50 Hz, 1 min	5200 V, 50 Hz, 1 min	5200 V, 50 Hz, 1 min	5200 V, 50 Hz, 1 min	5200 V, 50 Hz, 1 min	5200 V, 50 Hz, 1 min	5200 V, 50 Hz, 1 min
Scale base error	1 % (up to 0.1 A) 0.5 % (Up to 5 A)	-0,35 %	1 %	0,5 %	0,7 %	0,7 %	Scale 200: 0.5 % (+70 mA) Scale 2000: 0.5% (+100 mA)
Maximum conductor diameter	20 mm	100 mm	20 mm	20 mm	52 mm	52 mm	64 mm
Maximum busbar	1 - 50 x 5 mm or 4 - 30 x 5 mm	5 - 80 x 5 mm or 3 - 80 x 10 mm	20 x 5 mm	20 x 5 mm	1 - 50 x 5 mm or 4 - 30 x 5 mm	1 - 50 x 5 mm or 4 - 30 x 5 mm	5 - 125 x 5 mm or 3 - 100 x 10 mm
Description / Code	CF-5 Code M81331	CF-10 Code M81334	3 CP-5 Kit Code M81041	3 CP-100 Kit Code M81042 1 CP-100 Neutral clamp (blue) Code M81036	3 CPR500 Kit Code M81043 1 CPR-500 Neutral clamp (blue) Code M81037	3 CPR-1000 Kit Code M81044 1 CPR-1000 - Neutral clamp (blue) Code M81038	3 CP-2000/200 Kit Code M81045