



Energy efficiency technology





The electrical efficiency in your hands



Innovative

adj. That changes something giving it new aspects.

Powerful

adj. That has power, effectiveness or virtue for something.

Versatile

adj. Capable of adapting itself easily and quickly to different functions.

Intuitive

adj. Relates to the facility of understanding things instantly, without a need for reasoning, without difficulty or complication.

Customised

adj. Adapted or modified to the desires or needs of each person.

Efficient

adj. That achieves an end with the most adequate means. (carrying out several functions)

Complete

adj. Finished, perfect.

ars

adj. Innovative, powerful, versatile, intuitive, customised, efficient and complete.





Display of RMS parameters



Display of quality parameters

INNOVATIVE

portable analyzer

Portable power analyzer developed with the latest technologies and state-of-the-art components, which places the analyzer at the highest level in comparison with other portable analyzers.

5.7" screen

High resolution 5,7" VGA colour screen, which allows high resolution graphic representations of harmonics, phasors and waveforms.

new flexible sensors

New models of intelligent flexible self-powered clamps.

simultaneous measurement

Measurement of leakage current simultaneously to the measurement of the currents for each phase.

plug & play

Automatic recognition of connected clamps.



New flexible AM54-Flex clamps



New flexible AMS14-Flex clamps

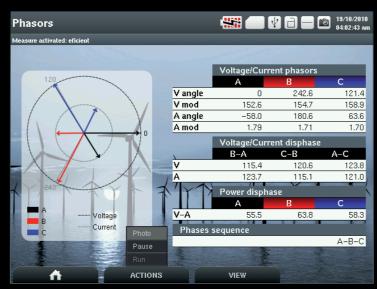
Innovative



Display of transients



Data recording with date and time



Activation of the PHOTO function

POWERFUL

10 measurement inputs

- 5 voltage inputs (phases, neutral and ground) and 5 current inputs (phases and neutral) and simultaneous leakage measurement.
- 6400 records per second for each of the channels.

transients

Recording of transients and waveform, fully configurable.

class 0.5

Class 0.5 in Power and Energy measurement (with **AR6-Flex** sensors).

recording with date and time

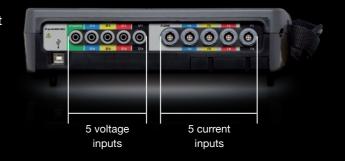
Internal clock for the recording of the maximum and minimum values with date and time.

PHOTO function

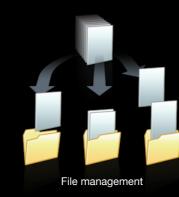
Captures of the electrical and waveform parameters by means of the PHOTO function.

file management

The equipment distributes the recordings in folders, classified by measurements configuration types, accessible from the computer.



Powerful





Simultaneous measurement of power grids and control of power supply quality



Trigger configuration screen (trigger)

VERSATILE

networks and quality

Power analyzer for simultaneous control of power grids and voltage supply quality.

class B

Class B measurement instrument, according to the **IEC 61000-4-30** quality standard.

standardisation

Measurement and recording according to the **EN 50160** standard, applied to recording by means of the attached **PowerVision** *plus* software.

configurable trigger

Trigger conditions (*trigger*), for the capture of electrical and waveform variables, totally configurable.

compatible sensors

Compatible with current clamp meters of previous models (adapter required depending on model).

easy browsing

Function buttons with dynamic menus that facilitate browsing and configuration.

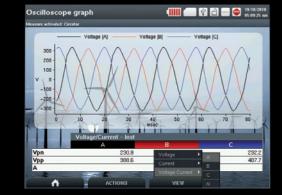


Current clamp meters of previous models

Versatile



Display of phasors



Display of waveforms



Main menu screen



Example of configuration using virtual keyboard

INTUITIVE

agile and clear interface

- Menu of the analyzer's general options with simple and intuitive icons.
- Easy access to the information and numeric data of the transients and power quality events.
- Display for the configuration screen of the clamp scales, when these are connected.
- Equipment configuration summary for prior validation of the record.
- Clear display of the power ratings and graphic representation of the quadrants, for each of the phases.

display of graphics

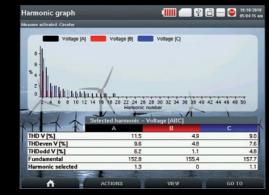
Graphic representations of phasors, waveform and harmonics, facilitating the interpretation of the recordings.

virtual keyboards

Configuration using an alphanumeric virtual keyboard for all the parameters of the equipment.

USB

USB connection for transferring the records to the computer.



Display of harmonics

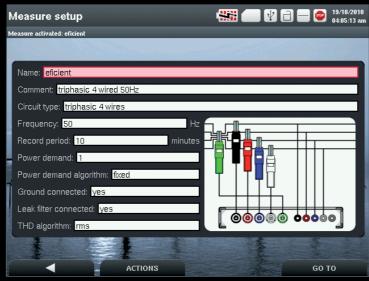


Display of quadrants

Intuitive

Measure activated: Circutor Measure List Circutor e3 eficient monophasic new triphasic 4wires ACTIONS

Measurements management screen



Phases configuration screen

CUSTOMISED

measurement profiles management

- Creation of standardised profiles by the user that speed up and facilitate the configuration of new records.
- Configuration of up to 5 different measurement/installation circuits (including AARON).
- Configuration of units and decimals of each variable to be displayed.

configurable phases

Completely configurable according to the international standards for identifying phases.

- Allows the assigned language and colour to be changed for each of the voltage and current phases.
- Provided with different screens for customising the equipment in the connections part.

 Voltage cables and current clamp meters adaptable to the international standards (colours).



Clamps in various interchangeable colours

Interchangeable connections screens



Measure trigger periodic Building measure trigger periodic screen Start time: 12:00:00 am Stop time: 12:00:00 am Days of week triggered Monday: no Tuesday: no Wednesday: no Thursday: no Saturday: no Saturday: no Sunday: no

Programming of recording in an interval of time



Configuration of logical functions

EFFICIENT

wide display

Viewer, analyzer and recorder of electrical variables, measurement of leakage currents, transients and power quality events (cuts, gaps and voltage surges).

expansion modules

Functions extendible by means of expansion modules (recording of the process signals, verification of meters, continuous measurement and other future functionalities).

energy management

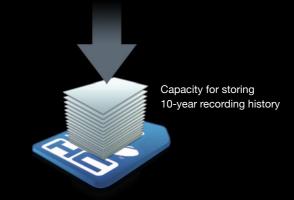
- Configurable backlit screen time to extend battery life.
- Smart battery charge and status management.

10-year record history

• 10-year memory capacity for recording electrical parameters *.STD (with factory settings).

programming

- Allows for programming the recording intervals between dates and repetitive recording between times from Monday to Sunday.
- Create equations (AND/OR functions) between automatic trigger conditions, optimising the equipment's storage memory.



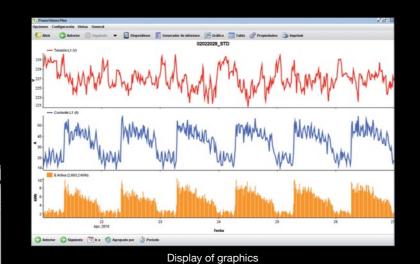
Efficient

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Events screen



Quality report



Properties (Configuración Videa General Contrata Contrata

Display of graphics

COMPLETE

The complete portable measurement device achieves its top performance together with its new and powerful software:

PowerVision plu5

- Powerful *software* for downloading, managing and using the data recorded by **CIRCUTOR** equipment.
- Allows the recorded electrical parameters information (*.std) to be displayed in graphic or table format.
- Display of the recorded quality events (*.evq) in sorted table or graphic format.
- Display of the waveform captures, by means of the device's PHOTO function (*.pho).
- Display of the history of the data recorded by the device in graphic or table format.
- Power network quality analysis with the reports module that allows many customised quality standards to be applied, or otherwise the regular (EN 50160) standards, generating the related reports.

*Shipped with the equipment



Technical specifications

Voltage inputs	
Measurement margin	U _n = 10 at 800 V _{ms} phase-neutral
Bandwidth	3.2 kHz
Maximum measurement voltage	+ 30%
Permanent allowable voltage surge	1,000 V _{ms}
Transient allowable voltage surge	2,500 V _{pic.} < 1 sec.
Maximum power consumption	≤0.04 V·A
Current inputs	

Measurement margin	from 1 to 120% of I _n
Primary measurement current I _n	Depends on clamp
Allowable overload	3 I _n
Consumption	≤0.0004 V·A

Auxiliary power supply	
Outside source	100240 V AC / 5060 Hz / 1 A

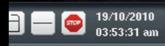
Measurement connection	
Inputs for current measurement	I ₁ , I ₂ , I ₃ , I _N , I _{leakages}
Inputs for voltage measurement	$U_{1}, U_{2}, U_{3}, U_{N}$, Ground

Interfaces	
Communications	USB port (Type B)

Mechanical	
Outside dimensions	283 x 168 x 80 mm
Weight	1.54 kg

Battery life	
Screen ON	4 hours
Screen OFF	8 hours

www.circutor.com



Circutor monophasic 50Hz nsformation ratio: 1:1 formation ratio: 5:1:1







REC/STOP





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