HELAGO-CZ, s.r.o.
Commercial Register maintained by the Regional Court in Hradec Králové
Section C, File 17879
Kladská 1082
500 03 Hradec Králové 3
Company ID: 25 96 39 61, VAT: CZ 25963961
Phone: 495 220 229, 495 220 394
Fax: 495 220 154
GSM gate: 602 123 096
E-mail: info@helago-cz.cz
Web: http://www.helago-cz.cz

727100 - Power Analyser CASSY

Order code: **5210.727100**

Information about product price on demand

Parameters	
Sensors	Fyzika
Quantitative unit	ks

The Power Analyser CASSY is a combination of an isolated and differential oscilloscope, multimeter, wattmeter, energy analyser and recorder. It is designed for demonstration and laboratory experiments.

The Power Analyser CASSY is suited to the following areas of application:

Energy networks

- Voltage and frequency stability
- Load behaviour of networks
- Effect of harmonics

Electrical machines

- Inrush current from transformers and machines
- Transformation ratio of transformers

- Efficiency of machines

Power electronics

- Rectifier
- DC/DC converter
- DC/AC converter
- Frequency converter
- Filter

POWER ANALYSER CASSY - IN DETAIL

- Simultaneous measurement of U, I, φU, φI, f and P
    - Instantaneous values U, I and P
    - Averaged values U, I and P
    - RMS values (AC+DC) U and I
    - Fundamental wave filters
    - Delta connection adjustment
- Universal connection options
    - Via USB connection with PC or laptop
    - Via WiFi with the school network or setting up an access point
- Automatic or manual range selection
- Supports the prize-winning measurement software CASSY Lab 2 for computer-aided measurements and simple to highly complex evaluations:
    - Electrical power calculation S, P, QC and QL
    - Electrical work WS, W and WQ
    - Resistance calculation R, Z, XC, XL, G, Y BC and BL
    - Positive sequence component, negative sequence component and zero sequence component in 3-phase systems
    - Time derivative, integral over time, FFT analysis, mean value, histogram, and modelling
    - Drivers for LabVIEW and MATLAB available
- Possibility of direct manual operation of the device by means of a rotary selector with cursor keys direct value readings on 9 cm backlit display
    - Display of up to 24 measured values on one display
    - Display of all values for each channel
    - Display of all values in tabular form
    - Display of measured values in a diagram
    - Display of a vector diagram
- Wireless connection to the CASSY app via WiFi for experimentation with tablets and smartphones (iOS, Android and Windows)
- Measuring instrument category CATIII 300: allows the use of the measuring instrument for tests with safety extra-low voltage (SELV) via 3-phase systems with or without neutral conductor, up to testing in power electronics, e.g. DC link voltage of 700 V DC
- Real-time processing in the device enables comprehensive network analysis in the three-phase networks, which are displayed directly on the device in the vector diagram

Technical data

DISPLAY & OPERATION

- Graphic display: 9 cm (3,5“), QVGA, colour, light (adjustable up to 400 cd/m²)
- Operation: Button and incremental encoder with button

INPUTS & OUTPUTS

- Inputs: 4 isolated measurement channels CATIII 300, each with I and U measurement (max. 8 usable simultaneously)
- Input A-D: U and I connection via 4 mm safety sockets
- Measurement range U: 25/70/250/700 VAC ±36/±100/±360/±1000 VDC
- Measurement range I: 0.7/1.6/7/16 AAC ±1/±2.5/±10/±16 ADC
- Sampling rate: max. 1.000.000 samples per channel for U, max. 500.000 samples for I

GENERAL

- Data storage: integrated micro SD card (4 GB) for more than a thousand measurement files and screenshots
- Remote access: full remote access and distribution of measurement data
- WLAN: as access point or client
- USB port: Type C
- Dimensions: 300 mm x 300 mm x 180 mm

Scope of Delivery

- 1x Power cord
- 1x USB□C /□A cord