



## PORTABLE POWER ANALYZER C80



## Table of contents

- 1.- What is the C80?
- 2.- What does the C80 do?
- 3.- Technical features
- 4.- Accessories for the C80
- 5.- Conclusions





## 1.- What is the C80?



## What is the C80?

- It is a **portable** power analyzer
- **Compact**
- **Light**
- **Convenient** to handle
- **Easy** to use
- **Complete**
- Portable **MODEL**



**ALL THESE BENEFITS !!!**



## Portable (I)

- Small measuring instrument
- Fits in **one hand**
- Ideal to carry with you and to take measurements in any type of installation
- Small enough to always carry with you



## Portable (II)





## Compact and light (I)

- Small, **PORTABLE** equipment
- Very **light**, low weight
- **Robust**
- Size: 172 x 100 x 50 mm
- Weight: 303.4 g



## Compact and light (II)





## Complete

- Can **measure and record** up to 28 parameters
- Records **maximum and minimum** values of its parameters
- Multivartest
- Different function modes
- Backlit display
- Own accessories
- **Alarm** setting option



## Handy

- Battery operated
- Does not need external power supply
- Ergonomic design makes it very **CONVENIENT** to handle





## Easy (I)

- **Very intuitive** menu system
- **Easy** to configure and set
- Simple measurement display, **easy to read**
- Easy measurements: **easy connection**
- Only needs one Ammeter clamp



## Easy (II)





## Easy (III)

- The power analyzer is defined as **PLUG AND PLAY**
- You only have to connect it
- No need of transformer ratio programming
- The ammeter clamp is self detected
- No need of configuration, few parameters

**ii VERY EASY !!**



## 2.- What does the C80 do?





## What does the C80 do? (I)

- Used for **balanced single phase** and **three phase** systems
- Measurements in **all types of installations**, motors, pumps, lifts, industrial premises, domestic premises,
- Measures electrical parameters:
  - V, A, Hz, kW, kVA., PF, kWh, kvarh
  - %THD V, %THD I
  - Power demand,  $\cos \varphi$
  - Maximums and minimums for these parameters, with date and time



## What does the C80 do? (II)

- Mode of operation:
  - **Measurement and recording** of electrical parameters
  - Calculates the **capacitor bank** required by an installation
  - Calculates the **reactive energy** that a condenser bank will correct
  - Displays the **phase turning direction**
  - Measures **leakage currents**







## What does the C80 do? (III)

- Alarm setting option when:
  - A certain **THD voltage** is exceeded
  - A certain **THD current** is exceeded
- Recording period setting



## 3.- Technical features





## Technical features (I)

- Voltage margin measurement: 25 – 550 V AC.
- Voltage and current over range: 10%
- Measurement accuracy: Class 1 for voltage and current and Class 2 for power
- Power supply: 2 x AA, 1.5 V batteries
- Independent operating period: 200 hours
- Backlit display



## Technical features (II)

- 4 types of menus: measurement, setup, recording, capacitor calculation, clear recordings
- Recording: circular file
- 3 line x 4 digit + icons display





## Technical features (III)

- 32 readouts per period
- Low battery indicator
- Measurement in AC
- Self detecting type of clamps and measurement range



## 4.- Accessories for the C80





## Accessories for the C80

- Bag
- Cables for voltage measurement
- Clamps:
  - Ammeter clamps
  - Flexible clamps
- C80 Kits



## Bag for the C80

- Hand bag including all the accessories required for measurements:
  - C80
  - Manual
  - Ammeter clamp
  - Cables



## Cables and Ammeter clamps

- Clamps can be used for **all available ranges**:
  - CP-2000/200, CPR-1000, CPR-500, CP-100 (M1u), CP-5
- CFLEX flexible clamps
- Cables suitable for voltage measurement



## CFLEX flexible clamps

- Only one CFLEX clamp needed
- No power supply necessary when used with the C80
- Automatic clamp and measurement range recognition





## 5.- Conclusions



## Conclusions

- **COMPACT** and **PORTABLE** analyzer
- Multivartest
- **SINGLE-PHASE** and **THREE-PHASE** systems (balanced)
- Many **MEASURED** and **RECORDED** parameters
- Various types of measurements
- **BACKLIT** display
- **ALARM** setting
- Very **HANDY** and **LIGHT**
- **INTUITIVE** and very **SIMPLE** to use





# C80



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