



MYeBOX-150, Portable power analyzer with recording of quality events and transients

Code: M84023.

> Communications: Wi-Fi

> No. of voltage measurement inputs: 4

> Measuring current Channels: 4

> Class: According to Class A

### Description

MYeBOX® is a range of portable analysers that can be configured from an app and/or a website to analyse and record electrical parameters, measure and record waveform transients and network quality parameters, as per the EN 50160 standard. The information is accessible remotely from the app and/or website. MYeBOX® measures and records electrical parameters in single-phase, two-phase or three-phase installations (with and without a neutral).

The app/website is connected to the device to display the measured data in real time, fully configure the device, start or stop the data recording, send the recorded data to the MYeBOX® Cloud platform, and even access the data from the memory to view it graphically or in table form. The remote connectivity lets you analyse the measured data from anywhere. The recorded data can also be sent to a data repository for further analysis in PowerVision Plus. The device can be configured locally using the capacitive keyboard and the on-screen menu options.

MYeBOX® 150 and MYeBOX® 1500 have the following features and functions:

- $\circ$  4 voltage measurement inputs ( $U_1$ ,  $U_2$ ,  $U_3$ ,  $U_n$ )
- $\circ$  4 current measurement inputs  $(I_1, I_2, I_3, I_n)$
- o Measurement of the main electrical parameters
- o Measurement of network quality parameters
- o True RMS measurement (TRMS)
- Measurement of consumption and generation (4Q)
- Voltage quality event log, according to EN 61000-4-30
- o Transients log
- o Recording of the wave shape associated with the quality events and transients
- Measurement according to EN 61000-4-30
- O Power supply is independent of the measurement
- o Recording of the wave shape for each recording period
- o LCD Screen
- Capacitive keypad
- Micro-USB port to download data
- Automatic detection of clamps
- o Identification of phases with colours
- O Compatible with clamps with EEPROM
- o Recording of system events (EVA)
- o NTP synchronisation
- o Sending of alarms via e-mail
- Wi-Fi communications (access point/terminal)

The MYeBOX® 1500 model also has:

- $\circ$  1 voltage measurement input  $U_{\text{ref}}$
- o 1 leakage current measurement input







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- $\circ~$  2 transistor inputs to centralise impulses / tariff / state
- o 2 transistor outputs for alarms
- o 3G/4G communications

### **Application**

MYeBOX can be used to:

- o Prepare complete studies of an electrical installation.
- Analyse consumption, load curves, disturbances in the installation's voltage, display wave shapes, harmonics study or flicker measurement, among other options.
- o Perform audits and analyses remotely.







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### Specifications

| Auxiliary battery power supply           |   |
|--|---|
| Autonomy                                 | 2 h   |
| Battery type                             | Litio (3,7 Vc.c.)   |
| Capacity                                 | 3700 mAh  |
| Load temperature                         | 0 40 °C   |
| Load time                                | 6 h   |
| AC power supply                          |   |
| Installation category                    | CAT II 300 V  |
| Consumption                              | 2228 VA   |
| Frequency                                | 4763 Hz   |
| Nominal voltage                          | 100240 Vc.a.(Adaptador de alimentación de c.a.)                               |
| Powered by charger, adapter              |   |
| Output voltage                           | 9 Vc.c.   |
| Maximum power                            | 18 W  |
| Battery specification                    |   |
| Capacity                                 | 220 mAh   |
| Performance-guarantee                    | 10 años   |
| Туре                                     | Litio   |
| Voltage                                  | 3 Vc.c.   |
| Environmental characteristics            |   |
| Protection class                         | IP 30   |
| Relative humidity (without condensation) | 595 %   |
| Storage temperature                      | -20+60 °C   |
| Working temperature                      | -10+50 °C   |
| Mechanical characteristics               |   |
| Envelope                                 | Self-extinguishing V0 plastic   |
| Weight (kg)                              | 2,8   |
| Standards                                |   |
| Certifications                           | CE  |
| Electrical safety, Maximum height (m)    | 2000  |
| Standards                                | Recycling European Directive 2002/96/EC, EN 61326-1, IEC 61010-1, 3rd Edition |
|  |   |







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Current measurement circuit

Installation category CAT III 600 V







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| Nominal current (In)                 | Depending on the clamp  |
|--------------------------------------|---|
| Phase current measurement            | Transformadores con salida 0,250 A ó 0,333 V                                |
| Phase current measuring range        | 1200 % In   |
| Maximum input current consumption    | 0,0004 VA   |
| Maximum pulse current                | 3 x In A  |
| Minimum current measurement          | Depending on the clamp  |
| oltage measurement circuit           |   |
| Installation category                | CAT III 600 V   |
| Consumption                          | 0,15 VA   |
| Sampling frequency                   | 4565 Hz   |
| Input impedance                      | 2,4 ΜΩ  |
| Frequency measuring range            | 42,5 69 Hz  |
| Voltage measuring range              | 10 600 V~ (Ph-N)  |
| Minimum measurement voltage (Vstart) | 10 V ac   |
| lectrical safety                     |   |
| Insulation                           | Double-insulated electric shock protection class II (IEC 61010-1)           |
| ser interface                        |   |
| Connectivity                         | μUSB  |
| LED                                  | 14  |
| Keyboard                             | 5 keys, 2 push button   |
| Display type                         | 20-character alphanumeric x 2 lines   |
| lemory                               |   |
| Write time                           | 1s, 1m, 5m, 15m, 1h, 1d   |
| Туре                                 | FAT 32  |
| leasurement accuracy                 |   |
| Current asymmetry (Ka)               | Class A (IEC 61000-4-30)  |
| Voltage asymmetry (Ka)               | Class A (IEC 61000-4-30)  |
| Current unbalance (Kd)               | Class A (IEC 61000-4-30)  |
| Voltage unbalance (Kd)               | Class A (IEC 61000-4-30)  |
| -                                    |   |
| Frequency measurement                | Class A ( 42.5 69 Hz) (IEC 61000-4-30)                                      |
|                                      | Class A ( 42.5 69 Hz) (IEC 61000-4-30) Class 0,2 (1200 % In) (IEC 61557-12) |



Reactive power measurement (kvar)

Apparent power measurement (kVA) Active energy measurement (kWh)

Active power measurement (kW)

Class 0,5S (IEC 62053-22)

Class 1  $\pm$  1 digit (IEC 61557-12) (Vn ac 230 / 110)

class  $0.5 \pm 1$  digit (IEC 61557-12) (Vn ac 230/110)

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| Power factor measurement  | Class 0.5 (IEC 61557-12)                 |
|---------------------------|--|
| Current THD               | Class 1 (IEC 61000-4-7)                  |
| Voltage THD               | Class 0.5 (IEC 61557-12)                 |
| Phase voltage measurement | Class 0,2 (10600 VPh-N ~) (IEC 61557-12) |
| Pinst. Flicker            | 3 % (IEC 61000-4-15)                     |
| Pst Flicker               | 5 % (0,2 10Pst) (IEC 61000-4-15)         |
| Current harmonics (THD)   | (up 50th) Class 1 (IEC 61000-4-7)        |
| Voltage harmonics (THD)   | (up 50th) Class 1 (IEC 61000-4-7)        |

#### Wireless communication

| Band              | 2,4 GHz. |
|-------------------|----------|
| Technology / Type | Wi-Fi    |

#### MYeBOX

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| CODE  | ТҮРЕ                        | Class                   | Communications | No. of<br>voltage<br>measurement<br>inputs | Measuring<br>current<br>Channels | Measuring<br>Channels | Transistor<br>output | Digital<br>inputs | Nr Sensors |
|---|-----------------------------|-------------------------|----------------|--|----------------------------------|-----------------------|----------------------|-------------------|------------|
| M840230000A00                               | MYeBOX-150                  | Class A                 | Wi-Fi          | 4  | 4                                |                       |                      |                   |            |
| M844330000A00                               | MYeBOX-1500-4G              |                         | Wi-Fi   4G     |  |                                  | 5                     | 2                    | 2                 |            |
| Portable analyzer kits with current sensors |                             |                         |                |  |                                  |                       |                      |                   |            |
| M8445C0000A00                               | MYeBOX-1500-4G + 4 FLEX-R45 |                         | Wi-Fi   4G     |  |                                  | 5                     | 2                    | 2                 | 4 FLEX-R45 |
| M8405C0000A00                               | MYeBOX-1500- 4 FLEX-R45     | Class A                 | Wi-Fi   3G     | 5  | 5                                |                       |                      | 2                 | 4 FLEX-R45 |
| M8445E0000A00                               | MYeBOX-1500-4G + 4 FLEX-R80 |                         | Wi-Fi   4G     |  |                                  | 5                     | 2                    | 2                 | 4 FLEX-R80 |
| M8405E0000A00                               | MYeBOX-1500-4 FLEX-R80      | Class A                 | Wi-Fi   3G     | 5  | 5                                |                       |                      | 2                 | 4 FLEX-R80 |
| M84023.                                     | MYeBOX-150                  | According<br>to Class A | Wi-Fi          | 4  | 4                                |                       |                      |                   |            |
| M84433.                                     | MYeBOX-1500-4G              |                         | Wi-Fi   4G     |  |                                  | 5                     | 2                    | 2                 |            |
| M8405B.                                     | MYeBOX-1500+3 FLEX-R45      | According<br>to Class A | Wi-Fi   3G     | 5  | 5                                |                       |                      | 2                 | 3 FLEX-R45 |
| M8404C.                                     | MYeBOX-150-4 FLEX-R45       | According<br>to Class A | Wi-Fi          | 4  | 4                                |                       |                      |                   | 4 FLEX-R45 |
| M8445C.                                     | MYeBOX-1500-4G + 4 FLEX-R45 |                         | Wi-Fi   4G     |  |                                  | 5                     | 2                    | 2                 | 4 FLEX-R45 |
| M8405D.                                     | MYeBOX 1500+3 FLEX-R80      | According<br>to Class A | Wi-Fi   3G     | 5  | 5                                |                       |                      | 2                 | 3 FLEX-R80 |
| M8404E.                                     | MYeBOX-150-4 FLEX-R80       | According<br>to Class A | Wi-Fi          | 4  | 4                                |                       |                      |                   | 4 FLEX-R80 |
| M8405E.                                     | MYeBOX-1500-4 FLEX-R80      | According<br>to Class A | Wi-Fi   3G     | 5  | 5                                |                       |                      | 2                 | 4 FLEX-R80 |
| M8445E.                                     | MYeBOX-1500-4G + 4 FLEX-R80 |                         | Wi-Fi   4G     |  |                                  | 5                     | 2                    | 2                 | 4 FLEX-R80 |
|   |                             |                         |                |  |                                  |                       |                      |                   |            |

Analyser with built-in SD memory and Cloud Includes voltage cables, alligator clips, USB cable, fastening strap, magnetic support, battery, power supply and carrying bag. Please contact us for other clamp or clamp length combinations







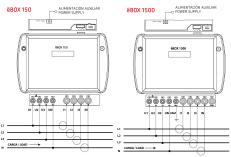
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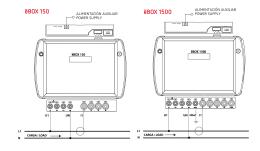
### **Dimensions**

### Connections

### Red trifásica a 4 hilos / 4-wire three-phase network



# Red monofásica fase-neutro de 2 hilos 2-wire Single-phase network (Neutral)



# Conexión de la corriente de fuga, lLeak Leakage current connection, lLeak



