

## MYeBOX-1500-4G + 4 FLEX-R45

MYeBOX-1500-4G + 4 FLEX-R45, Portable power analyzer with recording of quality events and transients

Code: M8445C0000A00

- > Nr Sensors: 4 FLEX-R45
- > Communications: Wi-Fi | 4G
- > Transistor output: 2
- > Digital inputs: 2
- > No. of voltage measurement inputs: 5
- > Measuring Channels: 5
- > Class: 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:

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

The MYeBOX® 1500 model also has:



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- 1 voltage measurement input  $U_{ref}$
- 1 leakage current measurement input
- 2 transistor inputs to centralise impulses / tariff / state
- 2 transistor outputs for alarms
- 3G/4G communications

### Application

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MYeBOX can be used to:

- 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.
- Perform audits and analyses remotely.



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### Specifications

#### Auxiliary battery power supply

Autonomy	2 h (without 4G), 50 min (with 4G)
Battery type	Lithium (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	22...28 VA
Frequency	47...63 Hz
Nominal voltage	100...240 Vc.a.(Adaptador de alimentación de c.a.)

#### Powered by charger, adapter

Output voltage	9 Vc.c.
Maximum power	20 W

#### Environmental characteristics

Protection class	IP 30
Relative humidity (without condensation)	5...95 %
Storage temperature	-20...+60 °C
Working temperature	-10...+50 °C

#### Mechanical characteristics

Envelope	Self-extinguishing V0 plastic
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#### Specific technical characteristics of current sensors

Linearity	2 % (10...200 % In)
Measurement range	100/1000/10000 A

#### Standards

Certifications	UL, CAN/CSA-C22.2 No. 61010-1, 3rd Edition, 2012-5, CE
Electrical safety, Maximum height (m)	2000
Standards	Recycling European Directive 2002/96/EC, EN 61326-1, UL 61010-1, 3rd Edition, 2012-05-11, IEC 61010-1, 3rd Edition

#### Current measurement circuit

Installation category	CAT III 600 V
Nominal current (In)	Depending on the clamp



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Phase current measurement	Transformadores con salida 0,250 A ó 0,333 V
Phase current measuring range	1...200 % In
Maximum input current consumption	0,0004 VA
Maximum pulse current	3 x In A
Minimum current measurement	Depending on the clamp

### Voltage measurement circuit

Installation category	CAT III 600 V
Consumption	0,15 VA
Input impedance	2,4 M $\Omega$
Frequency measuring range	45...65 Hz
Voltage measuring range	10...600 Vac
Minimum measurement voltage (Vstart)	10 V ~

### Communications

Technology	4G
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### Electrical safety

Insulation	Double-insulated electric shock protection class II (IEC 61010-1)
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### User interface

Connectivity	$\mu$ USB
LED	21
Keyboard	5 keys, 2 push button

### Digital inputs

Input/output insulation	2,7 kV
Quantity	2
Type	Potential-free contact
Maximum short-circuit current	5 mA
Maximum open circuit voltage	4...9 Vdc

### Memory

Memory capacity	16 GB
Write time	1s, 1m, 5m, 15m, 1h, 1d
Type	FAT 32

### Digital transistor outputs

Quantity	2
Type	Opto MOSFET
Maximum current	90 mA



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Maximum voltage	48 Vcc
<b>Internal battery</b>	
Capacity	220 mAh
Type	Lithium
Useful life	10 years
Voltage	3 Vc.c.
<b>Measurement accuracy</b>	
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 0,1 (45...65 Hz)
Phase current measurement	Class 0,2 (1...200 % In) (IEC 61557-12)
Reactive energy measurement (kvarh)	Class 1 (IEC 62053-23)
Power factor measurement	Class 0,5 (IEC 61557-12)
Phase voltage measurement	Class 0.2 (10...1000 VF-N ~) (IEC 61557-12)
Pinst. Flicker	3 % (IEC 61000-4-15)
Pst Flicker	5 % (0,2 ... 10Pst) (IEC 61000-4-15)

### MYeBOX

Portable power analyzer with recording of quality events and transients

CODE	TYPE	Class	Communications	No. of voltage measurement inputs	Measuring current Channels	Measuring Channels	Transistor output	Digital inputs	Nr Sensors
M840230000A00	MYeBOX-150	Class A	Wi-Fi	4	4				
<b>Portable analyzer kits with current sensors</b>									
M844330000A00	MYeBOX-1500-4G		Wi-Fi   4G			5	2	2	
M8404B0000A00	MYeBOX-150-3 FLEX-R45	Class A	Wi-Fi	4	4				3 FLEX-R45
M8445B0000A00	MYeBOX-1500-4G + 3 FLEX-R45		Wi-Fi   4G			5	2	2	3 FLEX-R45
M8445C0000A00	MYeBOX-1500-4G + 4 FLEX-R45		Wi-Fi   4G			5	2	2	4 FLEX-R45
M8404C0000A00	MYeBOX-150- 4 FLEX-R45	Class A	Wi-Fi	4	4				4 FLEX-R45
M8445D0000A00	MYeBOX-1500-4G + 3 FLEX-R80		Wi-Fi   4G			5	2	2	3 FLEX-R80
M8445E0000A00	MYeBOX-1500-4G + 4 FLEX-R80		Wi-Fi   4G			5	2	2	4 FLEX-R80
M8404D0000A00	MYeBOX-150- 3 FLEX-R80	Class A	Wi-Fi	4	4				3 FLEX-R80
M844530000A00	MYeBOX-1500-4G + 3 CPG-100		Wi-Fi   4G			5	2	2	3 CPG-100
M844550000A00	MYeBOX-1500-4G + 3 CPRG-500		Wi-Fi   4G			5	2	2	3 CPRG-500
M8404E0000A00	MYeBOX-150- 4 FLEX-R80	Class A	Wi-Fi	4	4				4 FLEX-R80
M840430000A00	MYeBOX-150- 3 CPG-100	Class A	Wi-Fi	4	4				3 CPG-100



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M840450000A00	MYeBOX-150- 3 CPRG-500	Class A	Wi-Fi	4	4				3 CPRG-500
M84023.	MYeBOX-150	According to Class A	Wi-Fi	4	4				
M84433.	MYeBOX-1500-4G		Wi-Fi   4G			5	2	2	
M8404B.	MYeBOX-150+3 FLEX-R45	According to Class A	Wi-Fi	4	4				3 FLEX-R45
M8445B.	MYeBOX-1500-4G + 3 FLEX-R45		Wi-Fi   4G			5	2	2	3 FLEX-R45
M8404C.	MYeBOX-150-4 FLEX-R45	According 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
M8404D.	MYeBOX-150-3 FLEX-R80	According to Class A	Wi-Fi	4	4				3 FLEX-R80
M8445D.	MYeBOX-1500-4G + 3 FLEX-R80		Wi-Fi   4G			5	2	2	3 FLEX-R80
M8404E.	MYeBOX-150-4 FLEX-R80	According to Class A	Wi-Fi	4	4				4 FLEX-R80
M8445E.	MYeBOX-1500-4G + 4 FLEX-R80		Wi-Fi   4G			5	2	2	4 FLEX-R80
M84043.	MYeBOX-150 + 3 CPG-100	According to Class A	Wi-Fi	4	4				3 CPG-100
M84453.	MYeBOX-1500-4G + 3 CPG-100		Wi-Fi   4G			5	2	2	3 CPG-100
M84045.	MYeBOX-150 + 3 CPRG-500	According to Class A	Wi-Fi	4	4				3 CPRG-500
M84455.	MYeBOX-1500-4G + 3 CPRG-500		Wi-Fi   4G			5	2	2	3 CPRG-500

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