

MYeBOX-1500-4G + 4 FLEX-R80, Portable power analyzer with recording of quality events and transients

Code: M8445E0000A00

> Nr Sensors: 4 FLEX-R80 > 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:

- $\circ$  4 voltage measurement inputs ( $U_1$ ,  $U_2$ ,  $U_3$ ,  $U_n$ )
- $\circ$  4 current measurement inputs  $(I_1, I_2, I_3, I_0)$
- o Measurement of the main electrical parameters
- Measurement of network quality parameters
- True RMS measurement (TRMS)
- o Measurement of consumption and generation (4Q)
- Voltage quality event log, according to EN 61000-4-30
- o Transients log
- $\circ$  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
- o 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
- Sending of alarms via e-mail
- Wi-Fi communications (access point/terminal)

The MYeBOX® 1500 model also has:







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

#### **Application**

MYeBOX can be used to:

- Prepare complete studies of an electrical installation.
- o 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 (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	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	20 W
Battery specification	
Capacity	220 mAh
Performance-guarantee	10 years
Туре	Lithium
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)	4
Specific technical characteristics of current sensors	
Linearity	2 % (10200 % In)
Measurement range	100/1000/10000 A
Standards	
Certifications	CE







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Electrical safety, Maximum height (m)	2000
Standards	Recycling European Directive 2002/96/EC, EN 61326-1, IEC 61010-1, 3rd Edition
Current measurement circuit	
Installation category	CAT III 600 V
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
Voltage measurement circuit	
Installation category	CAT III 600 V (UL) / CAT IV 600 V (IEC)
Consumption	0,15 VA
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 ~
Electrical safety	
Insulation	Double-insulated electric shock protection class II (IEC 61010-1)
User interface	
Connectivity	μUSB
LED	21
Keyboard	5 keys, 2 push button
Digital inputs	
Input/output insulation	2,7 kV
Quantity	2
Туре	Potential-free contact
Maximum short-circuit current	5 mA
Maximum open circuit voltage	49 Vdc
Memory	
Memory capacity	16 GB
	1s, 1m, 5m, 15m, 1h, 1d
Write time	



Digital transistor outputs





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Quantity	2
Туре	Opto MOSFET
Maximum current	90 mA
Maximum voltage	48 Vcc
Measurement 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)
Phase current measurement	Class 0,2 (1200 % 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 (10600 VPh-N ~) (IEC 61557-12)
Pinst. Flicker	3 % (IEC 61000-4-15)
Pst Flicker	5 % (0,2 10Pst) (IEC 61000-4-15)
Radio communication	
Band	UMTS/HSPA: 850/900/1900/2100 MHz. # GSM /GPRS /EDGE: 850/900/1800/1900 MHz.

## Technology / Type Wireless communication

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Band	2,4 GHz
Technology / Type	Wi-Fi

4G

#### MYeB0X

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				
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 to Class A	Wi-Fi	4	4				







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			inputs	Lnannels				
MYeB0X-1500-4G		Wi-Fi   4G			5	2	2	
MYeBOX-1500+3 FLEX-R45	According to Class A	Wi-Fi   3G	5	5			2	3 FLEX-R45
MYeBOX-150-4 FLEX-R45	According to Class A	Wi-Fi	4	4				4 FLEX-R45
MYeBOX-1500-4G + 4 FLEX-R45		Wi-Fi   4G			5	2	2	4 FLEX-R45
MYeBOX 1500+3 FLEX-R80	According to Class A	Wi-Fi   3G	5	5			2	3 FLEX-R80
MYeBOX-150-4 FLEX-R80	According to Class A	Wi-Fi	4	4				4 FLEX-R80
MYeBOX-1500-4 FLEX-R80	According to Class A	Wi-Fi   3G	5	5			2	4 FLEX-R80
MYeB0X-1500-4G + 4 FLEX-R80		Wi-Fi   4G			5	2	2	4 FLEX-R80
	MYeB0X-1500-4G  MYeB0X-1500+3 FLEX-R45  MYeB0X-150-4 FLEX-R45  MYeB0X-1500-4G + 4 FLEX-R45  MYeB0X 1500+3 FLEX-R80  MYeB0X-150-4 FLEX-R80	MYeBOX-1500-4G  MYeBOX-1500+3 FLEX-R45 According to Class A  MYeBOX-150-4 FLEX-R45 According to Class A  MYeBOX-1500-4G + 4 FLEX-R45  MYeBOX 1500+3 FLEX-R80 According to Class A  MYeBOX-150-4 FLEX-R80 According to Class A  MYeBOX-1500-4 FLEX-R80 According to Class A	MYeBOX-1500-4G         Wi-Fi   4G           MYeBOX-1500+3 FLEX-R45         According to Class A         Wi-Fi   3G           MYeBOX-150-4 FLEX-R45         According to Class A         Wi-Fi           MYeBOX-1500-4G + 4 FLEX-R45         Wi-Fi   4G           MYeBOX 1500+3 FLEX-R80         According to Class A         Wi-Fi   3G           MYeBOX-150-4 FLEX-R80         According to Class A         Wi-Fi           MYeBOX-1500-4 FLEX-R80         According to Class A         Wi-Fi   3G	TYPE         Class         Communications leading measurement inputs         voltage measurement inputs           MYeBOX-1500-4G         Wi-Fi   4G         VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	TYPE         Class         Communications woltage measurement inputs         Measuring current Channels           MYeBOX-1500-4G         Wi-Fi   4G         VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	TYPE         Class         Communications         voltage measurement inputs         Measuring current Channels         Measuring Channels           MYeBOX-1500-4G         Wi-Fi   4G         5         5           MYeBOX-1500+3 FLEX-R45         According to Class A         Wi-Fi   3G         5         5           MYeBOX-150-4 FLEX-R45         Wi-Fi   4G         4         4           MYeBOX-1500-4G + 4 FLEX-R45         Wi-Fi   4G         5         5           MYeBOX-1500-4G + 4 FLEX-R45         Wi-Fi   3G         5         5         5           MYeBOX-1500-4G + 4 FLEX-R45         Wi-Fi   3G         5         5         5           MYeBOX-1500-4G + 4 FLEX-R45         Wi-Fi   3G         5         5         5           MYeBOX-1500-4G + 4 FLEX-R80         According to Class A         Wi-Fi   3G         5         5         5           MYeBOX-1500-4 FLEX-R80         According to Class A         Wi-Fi   3G         5         5         5	TYPE  Class Communications woltage measurement inputs  Measuring Channels Channels Transistor output  Measuring Channels Transistor output  Figure 1 Garding to Class A  MYeBOX-1500+3 FLEX-R45  MYeBOX-1500-4 FLEX-R45  MYeBOX-1500-4 FLEX-R45  MYeBOX-1500-4G + 4 FLEX-R45  MYeBOX-1500-4G + 4 FLEX-R45  MYeBOX-1500-4G + 4 FLEX-R45  MYeBOX-1500-4G + 4 FLEX-R80  MYeBOX-1500-4 FLEX-R80  According to Class A  Mi-Fi   3G  Mi-Fi   3G	TYPE Class Communications voltage measurement inputs  Measuring Channels Ch

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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# Connections



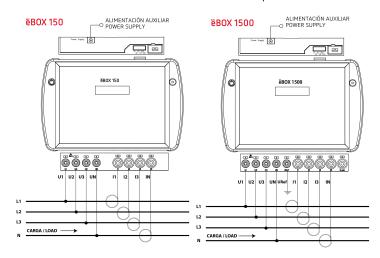




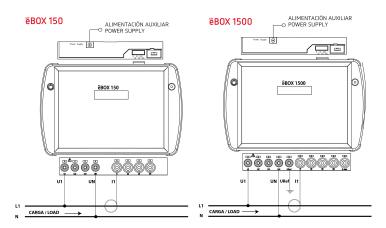
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#### Red trifásica a 4 hilos / 4-wire three-phase network



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



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

