



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

Code: M8405E0000A00

> Nr Sensors: 4 FLEX-R80 > Communications: Wi-Fi | 3G

> Transistor output: 2 > Digital inputs: 2

> No. of voltage measurement inputs: 5

> Measuring current 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  $\textbf{MYeBOX} \textcircled{\textbf{8}}$  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  $(I_1, I_2, I_3, I_0)$
- Measurement of the main electrical parameters
- 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
- 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
- o 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
- Recording of system events (EVA)
- NTP synchronisation
- O Sending of alarms via e-mail
- o Wi-Fi communications (access point/terminal)







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The MYeBOX® 1500 model also has:

- $\circ$  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:

- $\circ\;$  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.
- $\circ\;$  Perform audits and analyses remotely.







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## **Specifications**

Auxiliary battery power supply	
Autonomy	2 h (without 3G), 50 min (with 3G)
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	20 W
Battery specification	
Capacity	220 mAh
Performance-guarantee	10 años
Туре	Litio
Voltage	3 Vc.c.
Specific technical characteristics of current sensors	
Linearity	2 % (10200 % In)
Measurement range	100/1000/10000 A
Standards	
Certifications	CE
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 ln A







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Minimum current measurement	Depending on the clamp
Voltage 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
Electrical safety	
Insulation	Double-insulated electric shock protection class II (IEC 61010-1)
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	
Write time	1s, 1m, 5m, 15m, 1h, 1d
Туре	FAT 32
Digital transistor outputs	
Quantity	2
Туре	Opto MOSFET
Maximum current	90 mA
Maximum voltage	48 Vc.c.
Mechanical characteristics	
Weight (kg)	4
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)







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Reactive energy measurement (kvarh)	Class 1 (IEC 62053-23)
Reactive power measurement (kvar)	Class 1 ± 1 digit (IEC 61557-12) (Vn ac 230/110)
Apparent power measurement (kVA)	class 0,5 $\pm$ 1 digit (IEC 61557-12) (Vn ac 230/110)
Active energy measurement (kWh)	Class 0,5S (IEC 62053-22)
Active power measurement (kW)	class 0,5 ± 1 digit (IEC 61557-12) (Vn ac 230/110)
Power factor measurement	Class 0.5 (IEC 61557-12)
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)

#### Radio communication

Band	UMTS/HSPA: 850/900/1900/2100 MHz. # GSM /GPRS /EDGE: 850/900/1800/1900 MHz.
Technology / Type	3G

#### Wireless communication

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

### 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				
Portable analyzer	kits with current sensors								
M844330000A00	MYeBOX-1500-4G		Wi-Fi   4G			5	2	2	
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				
M84433.	MYeBOX-1500-4G		Wi-Fi   4G			5	2	2	
M8405B.	MYeBOX-1500+3 FLEX-R45	According to Class A	Wi-Fi   3G	5	5			2	3 FLEX-R45
M8404C.	MYeBOX-150-4 FLEX-R45	According to Class A	Wi-Fi	4	4				4 FLEX-R45







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CODE	TYPE	Class	Communications	No. of voltage measurement inputs	Measuring current Channels	Measuring Channels	Transistor output	Digital inputs	Nr Sensors
M8445C.	MYeBOX-1500-4G + 4 FLEX-R45		Wi-Fi   4G			5	2	2	4 FLEX-R45
M8405D.	MYeBOX 1500+3 FLEX-R80	According to Class A	Wi-Fi   3G	5	5			2	3 FLEX-R80
M8404E.	MYeBOX-150-4 FLEX-R80	According to Class A	Wi-Fi	4	4				4 FLEX-R80
M8405E.	MYeBOX-1500-4 FLEX-R80	According to Class A	Wi-Fi   3G	5	5			2	4 FLEX-R80
M8445E.	MYeB0X-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







Portable power analyzer

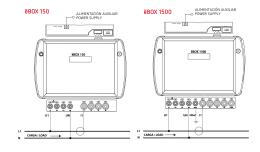
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## **Dimensions**

## 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



