

MYeBOX

Portable power analyzer



Description

MYeBOX is a range of portable analyzers that can be configured from an app that analyses the accessible electrical parameters remotely. MYeBOX measures and records the electrical parameters in single, two or three-phase installations (with and without neutral).

The app is connected to the device to display the data measured in real time, to fully configure the unit, to start or stop the data recording process, to send the recorded data to MYeBOX Cloud and even to access the data in the memory to display them in graphical form or in tables. Remote connectivity allows the unit to analyse all data measured without the need to travel to the site. Data recorded by the unit can also be sent to a data repository for its subsequent analysis in PowerVision Plus. The unit can be configured locally with a capacitive keypad and with the menu options shown on the screen.

The most advanced model, MYeBOX 1500, can measure the leakage current simultaneously, it can measure the network quality parameters in compliance with the **EN 50160** standard and also record the transients.

MYeBOX 150 has 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
- Energy consumed and generated
- 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)

In addition to these features and functions, MYeBOX 1500 also features:

- 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 communications

Applications

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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Technical features

	Input	MYeBOX 150	MYeBOX 1500
Power supply (AC power supply adapter)	Rated voltage	100...250 Vac	100...250 Vac
	Frequency	47...63 Hz	47...63 Hz
Voltage measurement circuit	Consumption	22... 28 VA	25... 31 VA
	Installation category	CAT II 300 V	CAT II 300 V
	Output	MYeBOX 150	MYeBOX 1500
	Rated voltage	9 Vdc	9 Vdc
	Consumption	18 W	20 W
	Voltage measurement margin	10...600 Vac	
	Frequency measurement margin	40...65 Hz	
	Input impedance	2.4 MΩ	
	Minimum measuring voltage V_{start}	10 Vac	
	Maximum voltage input consumption	0.15 VA	
Current measuring circuit	Installation category	CAT III 600 V	
	Measurement of the Phase and Neutral current	Clamps: CPG-5, CPG-100, CPRG-500, CPRG-1000, CPG-200/2000, Clamps with mV/kA output. Transformers with a 250 mA or 333 mV output	CFG-5, CFG-10, WGC transformers
	Leakage current measurement (eBOX-1500 model)		
	Nominal current I_n	Depending on the type of clamp	
	Current measurement margin	1...200 I_n %	
	Maximum current, impulse < 1 s	3 x I_n , A	
	Minimum measurement current I_{start}	Depending on the type of clamp	
	Maximum current input consumption	0.0004 VA	
	Installation category	CAT III 600 V	
	Phase voltage measurement	Class 0.2 (10...600 Vac)	
	Phase current measurement	Class 0.2 1%...200% I_n	
	Active and apparent power measurement (V_n 230/110 Vac)	Class 0.5 ±1 digit	
	Reactive power measurement (V_n 230/110 Vac)	Class 1 ±1 digit	
	Active energy measurement (IEC 62053-22)	Class 0.5S	
	Reactive energy measurement (IEC 62053-23)	Class 1	
Frequency measurement	Class 0.1 (40...65 Hz)		
Power factor measurement	Class 0.5		
Voltage THD measurement	Class 1 (IEC 61000-4-7)		
Voltage harmonics (up to the 50 th order)	Class 1 (IEC 61000-4-7)		
Current THD measurement	Class 1 (IEC 61000-4-7)		
Current harmonics (up to the 50 th order)	Class 1 (IEC 61000-4-7)		
Digital transistor outputs (MYeBOX 1500)	Number of outputs	2	
	Type	Transistor	
	Maximum voltage	48 V	
	Maximum current	90 mA	
	Maximum frequency	1 kHz	
	Impulse width	1 ms	
Digital inputs (MYeBOX 1500)	Impulse duration (T_{on} / T_{off})	0.3 ms / 0.7 ms	
	Number of inputs	2	
	Type	Potential free contact	
	Insulation	5 kV	
	Maximum short-circuit current	5 mA	
	Maximum voltage in open circuit	4...9 Vdc	
Wi-Fi communications	Band	2.4 GHz	
	Standards	IEEE 802.11 b / g / n	
3G communications (MYeBOX 1500)	Networks	UMTS/HSPA: 850/900/1900/2100 MHz GSM/GPRS/EDGE: 850/900/1800/1900 MHz	
	Maximum output power	UMTS/3G (Class 3 Power): 24 dBm GSM850/900 (Class 4 Power): 33 dBm GSM1800/1900 (Class 1 Power): 30 dBm	
User interface	Display	Alphanumeric, 20 characters x 2 lines	
	Keypad	5 keys, 2 buttons	
	LED	MYeBOX 150: 14 LED MYeBOX 1500: 21 LED	
	Connectivity	micro-USB	
Internal battery	Type	Lithium	
	Voltage	3 V	
	Capacity	220 mAh	
	Service life	10 years	

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Battery	Type	Lithium
	Voltage	3.7 V
	Capacity	3700 mAh
	Charging time	6 hours
	Charging temperature	0...45 °C
	Battery life	2 hours
	MicroSD memory	Format
Capacity		16 Gb
Log period		1 s, 1 min, 5 min, 15 min, 1 h, 1 day
Environmental features	Operating temperature	-10...+50 °C
	Storage temperature	-20 °C...+60 °C
	Relative humidity (non-condensing)	5...95%
	Maximum altitude	2,000 m
Build features	Dimensions	165.96 x 255.68 x 40 mm
	Weight	MYeBOX 150: 950 gr MYeBOX 1500: 975 gr
	Protection degree	IP 30
	Enclosure	V0 self-extinguishing plastic
	Standards	IEC 61010:2010, EN 61326-1:2013, UL/IEC 61010-1 3rd Edition

References

Type	Code	Description
MYeBOX 150	M84022	KIT A: MYeBOX 150
MYeBOX 1500	M84032	KIT A: MYeBOX 1500

KIT A: Analyzer, battery, power cable, USB cable, coloured indicators.

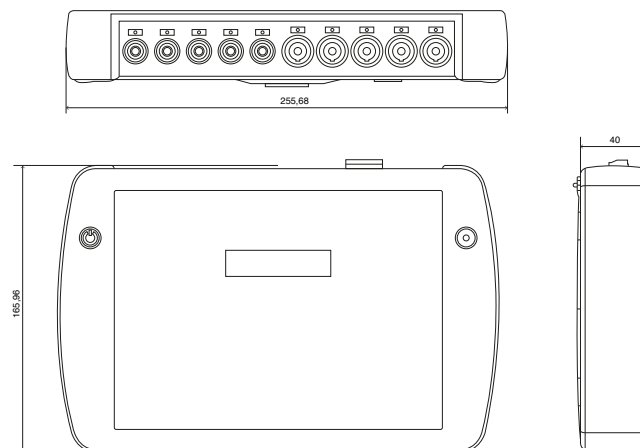
Type	Code	Description
MYeBOX 150	M84023	KIT B: MYeBOX 150
MYeBOX 1500	M84033	KIT B: MYeBOX 1500

KIT B: KIT A + strap, magnetic base, voltage cables, crocodile clamps, carrying bag.

Type	Code	Description
MYeBOX 150	M8404B	KIT B + 3 pinzas CS-RED-FLEX 45*
MYeBOX 1500	M8405B	KIT B + 3 pinzas CS-RED-FLEX 45*
MYeBOX 150	M84043	KIT B + 3 pinzas CPG-100*
MYeBOX 1500	M84053	KIT B + 3 pinzas CPG-100*
MYeBOX 150	M84045	KIT B + 3 pinzas CPRG-500*
MYeBOX 1500	M84055	KIT B + 3 pinzas CPRG-500*

* Available in other lengths and with 4 clamps. Kits available with CPRG-1000, CPG-200/2000 clamps.

Dimensions



Connections

