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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

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 $(I_1, I_2, \overline{I_3}, I_n)$
- 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

Power supply	Input	MYeBOX 150	MYeBOX 1500	
(AC power supply adapter)	Rated voltage	100250 Vac	100250 Vac	
(- p	Frequency	4763 Hz	4763 Hz	
	Consumption	22 28 VA	25 31 VA	
		CAT II 300 V	CAT II 300 V	
	Installation category			
	Output	MYeBOX 150	MYeBOX 1500	
	Rated voltage	9 Vdc	9 Vdc	
	Consumption	18 W	20 W	
Voltage measurement	Voltage measurement margin	10600 Vac		
circuit	Frequency measurement margin	4065 Hz		
	Input impedance	2.4 MΩ		
	Minimum measuring voltage V _{start}	10 Vac		
	Maximum voltage input consumption	0.15 VA		
	Installation category	CAT III 600 V		
Current measuring circuit	Measurement of the Phase and Neutral current	CPRG-1000, CPG	A output. Transforme	
	Leakage current measurement (eBOX-1500 model)		WGC transformers	
	Nominal current I _n	Depending on the	e type of clamp	
	Current measurement margin	1200 In %	- Jpo or orannp	
	Maximum current, impulse < 1 s	$\frac{1200 I_n \%}{3 x I_n A}$		
		Depending on the	tupo of alama	
	Minimum measurement current I _{start}		e type of clamp	
	Maximum current input consumption	0.0004 VA		
-	Installation category	CAT III 600 V		
Accuracy	Phase voltage measurement	Class 0.2 (1060	,	
according to IEC 61557-	Phase current measurement	Class 0.2 1%20		
12 for PMD SD/SS)	Active and apparent power measurement (V _n 230/110 Vac)	Class 0.5 ±1 digit		
Indicated accuracy for 2 Vac current measurement	Reactive power measurement (V _n 230/110 Vac)	Class 1 ±1 digit		
channel (without clamps).	Active energy measurement (IEC 62053-22)	Class 0.5S		
	Reactive energy measurement (IEC 62053-23)	Class 1		
	Frequency measurement	Class 0.1 (4065	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	Class 1 (IEC 610)	,	
	to the 50th order)		50-4-7)	
Digital transistor outputs		2		
(MYeBOX 1500)				
(MITEDOX 1300)	Туре	Transistor		
	Maximum voltage	48 V		
	Maximum current	90 mA		
	Maximum frequency	1 kHz		
	Impulse width	1 ms		
	Impulse duration (T _{on} / T _{off})	0.3 ms / 0.7 ms		
Digital inputs	Number of inputs	2		
(MYeBOX 1500)	Туре	Potential free cor	utact	
	Insulation	5 kV	nuot	
		-		
	Maximum short-circuit current	5 mA		
	Maximum voltage in open circuit	49 Vdc		
Wi-Fi communications	Band	2.4 GHz		
	Standards	IEEE 802.11 b / g	/ n	
3G communications	Networks		0/900/1900/2100 MH	
(MYeBOX 1500)	Maximum output power	GSM/GPRS/EDGE:	850/900/1800/1900 MH	
		UMTS/3G (Class 3 Power): 24 dBm GSM850/900 (Class 4 Power): 33 dBr GSM1800/1900 (Class 1 Power): 30 dl		
User interface	Display	Alphanumeric, 20 characters x 2 lines		
User interface	Keypad			
User interface		5 keys, 2 buttons		
oser interface		MYeBOX 150: 14 LED MYeBOX 1500: 21 LED		
user interface	LED			
user interface	LED			
	LED Connectivity	MYeBOX 1500: 2 micro-USB		
	LED Connectivity Type	MYeBOX 1500: 2 micro-USB Lithium		
	LED Connectivity Type Voltage	MYeBOX 1500: 2 micro-USB Lithium 3 V		
Internal battery	LED Connectivity Type	MYeBOX 1500: 2 micro-USB Lithium		

* Possibility of power supply at 480 Vac



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Battery	Туре	Lithium		
Dattery	Voltage	3.7 V		
		3700 mAh		
	Capacity			
	Charging time	6 hours		
	Charging temperature	045 °C		
	Battery life	2 hours		
MicroSD memory	Format	FAT 32		
	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)	595%		
	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

Туре	Code	Voltage / Current inputs	Comms.	Transistor inputs / outputs
kit MYeBOX-150	M84023	4/4	WiFi	- / -
kit MYeBOX-1500	M84033	5/5	WiFi + 3G	2/2
Analyser with built-in SD memo alligator clips, USB cable, faste	2	0	oles,	

battery, power supply and carrying bag.

Туре	Code	Description
MYeBOX-150-3FLEX45	M8404B	Include kit MYeBOX-150 (M84023) + 3 FLEX-R45
MYeBOX 1500-3FLEX45	M8405B	Include kit MYeBOX-1500 (M84033) + 3 FLEX-R45
MYeBOX-150-4FLEXR45	M8404C	Include kit MYeBOX-150 (M84023) + 4 FLEX-R45
MYeBOX-1500-4FLEXR45	M8405C	Include kit MYeBOX-1500 (M84033) + 4 FLEX-R45
MYeBOX-150-3FLEXR80	M8404D	Include kit MYeBOX-150 (M84023) + 3 FLEX-R80
MYeBOX-1500-3FLEXR80	M8405D	Include kit MYeBOX-1500 (M84033) + 3 FLEX-R80
MYeBOX-150-4FLEXR80	M8404E	Include kit MYeBOX-150 (M84023) + 4 FLEX-R80
MYeBOX-1500-4FLEXR80	M8405E	Include kit MYeBOX-1500 (M84033) + 4 FLEX-R80
MYeBOX 150-3CPG100	M84043	Include kit MYeBOX-150 (M84023) + 3 CPG 100
MYeBOX 1500-3CPG100	M84053	Include kit MYeBOX-1500 (M84033) + 3 CPG 100
MYeBOX 150-3CPRG500	M84045	Include kit MYeBOX-150 (M84023) + 3 CPRG 500
MYeBOX 1500 3CPRG500	M84055	Include kit MYeBOX-1500 (M84033) + 3 CPRG 500

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

References CLASS A

Туре	Code	Voltage / Current inputs	Comms.	Transistor inputs / outputs
kit MYeBOX-150	M840230000A00	4/4	WiFi	- / -
kit MYeBOX-1500	M840330000A00	5/5	WiFi + 3G	2/2
Analyser with built-	in SD memory and Cloud	Calibration Certificat	e (IEC 61000-4-30	Ed.2) Class A.

Includes voltage cables, alligator clips, USB cable, fastening strap, magnetic support, battery, power supply and carrying bag.

Туре	Code	Description
MYeBOX-150-3FLEX45	M8404B0000A00	Include kit MYeBOX-150 (M84023) + 3 FLEX-R45
MYeBOX 1500-3FLEX45	M8405B0000A00	Include kit MYeBOX-1500 (M84033) + 3 FLEX-R45
MYeBOX-150-4FLEXR45	M8404C0000A00	Include kit MYeBOX-150 (M84023) + 4 FLEX-R45
MYeBOX-1500-4FLEXR45	M8405C0000A00	Include kit MYeBOX-1500 (M84033) + 4 FLEX-R45
MYeBOX-150-3FLEXR80	M8404D0000A00	Include kit MYeBOX-150 (M84023) + 3 FLEX-R80
MYeBOX-1500-3FLEXR80	M8405D0000A00	Include kit MYeBOX-1500 (M84033) + 3 FLEX-R80
MYeBOX-150-4FLEXR80	M8404E0000A00	Include kit MYeBOX-150 (M84023) + 4 FLEX-R80
MYeBOX-1500-4FLEXR80	M8405E0000A00	Include kit MYeBOX-1500 (M84033) + 4 FLEX-R80
MYeBOX 150-3CPG100	M840430000A00	Include kit MYeBOX-150 (M84023) + 3 CPG 100
MYeBOX 1500-3CPG100	M840530000A00	Include kit MYeBOX-1500 (M84033) + 3 CPG 100
MYeBOX 150-3CPRG500	M840450000A00	Include kit MYeBOX-150 (M84023) + 3 CPRG 500
MYeBOX 1500 3CPRG500	M840550000A00	Include kit MYeBOX-1500 (M84033) + 3 CPRG 500

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

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References CPG, rigid clamps

Туре	Imin - Measurement Range	No. Sensors	Code	No. Sensors	Code	No. Sensors	Code
CPG-5	0,05 / 0,55 A	1	M810B1	3	M810C1	4	M810D1
CPG-100	1 / 10100 A	1	M810B2	3	M810C2	4	M810D2
CPRG-500	1 / 50500 A	1	M810B3	3	M810C3	4	M810D3
CPRG-1000	1 / 201000 A	1	M810B4	3	M810C4	4	M810D4
CPG-2000/200	1 / 10200 A - 10 / 1502000 A	1	M810B5	3	M810C5	4	M810D5

References CFG, residual current clamps

Туре	Code	Measurement Range	I _{min}
CFG-5	M810BD	0,15 A	0,01 A
CFG-10	M810BE	0,110 A	0,05 A

References FLEX-R, flexible clamps

Туре	Imin - Measurement Range	Length	No. Sensors	Code	No. Sensors	Code	No. Sensors	Code
FLEX-R45	1 / 10 / 50 10 100 /	45 cm	1	M81611	3	M81631	4	M81641
FLEX-R80	1 / 10 / 50 - 10100 / 1001000 / 100010000 A	80 cm	1	M81612	3	M81632	4	M81642
FLEX-R120	1001000 / 100010000 A	120 cm	1	M81613	3	M81633	4	M81643

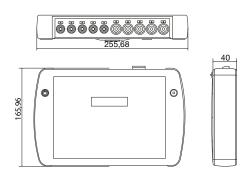
Referencias FLEX-RMG, Sensores de corriente flexibles

Туре	I _{min} - Measurement Range	Length	No. Sensors	Code	No. Sensors	Code	No. Sensors	Code
FLEX-RMG70	1 / 10 / 50 - 10100 /	22 cm	1	M81911	3	M81931	4	M81941
FLEX-RMG120	1001000 / 100010000 A	38 cm	1	M81912	3	M81932	4	M81942

Accesories

Туре	Code	Description
MYeBOX	M84011	MYeBOX battery
POWER SUPPLY MYeBOX	M84012	MYEBOX power cable
480V PSU ADAPTER MYeBOX	M8401A	MYEBOX power adapter for 480 Vac
MARKER MYeBOX 9 COLOURS	M84014	Markers
MYeBOX-CARRYING BAG	M84015	Carrying bag
MYeBOX Belt	M84016	MYeBOX strap
MYeBOX Mag. Support	M84017	MYeBOX magnetic base
MAV-7x4	M8990E	4 x Voltage magnetic adapter 7 x 10 mm

Dimensions



Connections

