



Technical data

MESSKO® MLOG. Transport monitor

8454296/02 EN



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The product may have been altered since this document was published.

We reserve the right to change the technical data, design and scope of supply.

Generally the information provided and agreements made when processing the individual quotations and orders are binding.

The original operating instructions were written in German.

1 Design

This technical document contains detailed information about the technical properties of the product. To place an order, please use the "Bestellangabenblatt (Inquiry and order specifications)" form, which you will find on our website <http://www.reinhausen.com> below the respective product. Further information is available in the MR Reinhausen customer portal: <https://portal.reinhausen.com>.

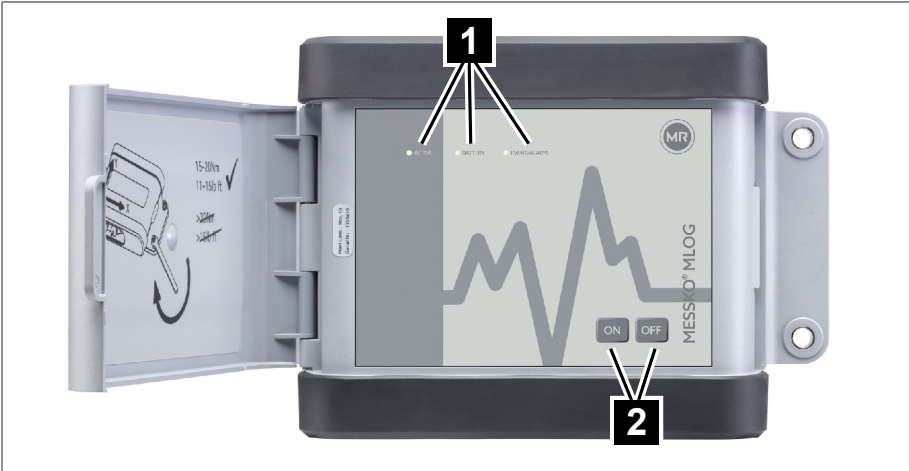


Figure 1: MESSKO® MLOG IM50

1	3 LEDs for status monitoring	2	ON and OFF keys
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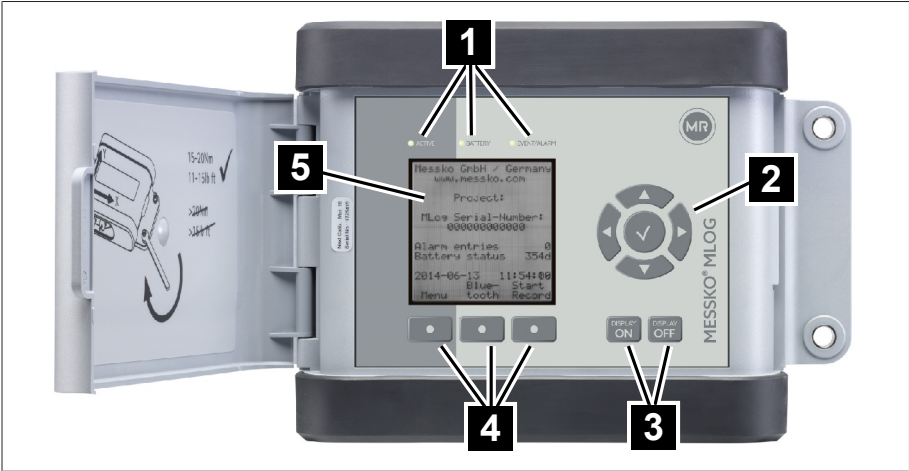


Figure 2: MESSKO® MLOG IM100

1	3 LEDs for status monitoring	2	Control pad
3	DISPLAY ON and DISPLAY OFF keys	4	3 softkeys
5	Display		

2 Technical data

Permissible ambient conditions	
Location of use	Transport monitoring Indoors and outdoors, tropic-proof
Operating temperature	-40...+80 °C ¹⁾
Storage temperature	-40...+80 °C ¹⁾
Pressure equalization element	GORE-TEX membrane; external diameter Ø 14 mm [0.55"] / internal diameter Ø 8 mm [0.31"]
Degree of protection	IP65 in accordance with IEC 60529
Protection class	III

¹⁾ The specified maximum temperature of +80 °C does not apply to the supplied alkaline batteries. The supplied alkaline batteries can only be used up to +45 °C.

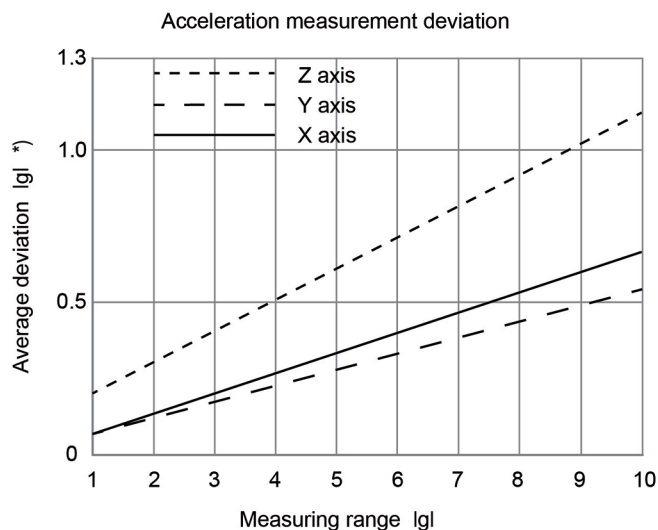
Dimensions and weight	
Housing	Width 297 mm [11.68"]; height 196 mm [7.72"]; depth 59 mm [2.31"]
Basic materials	Basic housing: Luran S
	Protectors: Softell TKS; resistance against weathering and aging, good resistance against chemicals
Mounting	4 through-holes for M8 screws
Weight	1.8 kg [3.97 lb]

Power supply	
Battery type	6 LR14, C-cell, alkaline (Zn/MnO ₂) ¹⁾
	Nominal voltage: 1.5 V per cell
	Capacity: min. 7,800 mAh
	Service life 5 years
Connection to PC	Connection cable USB 2.0, type A – mini B (5-pin); cable length 3 m
Real-Time Clock (RTC) battery type	CR1225 Li/MnO ₂
	Voltage: 3 V
	Capacity: 48 mAh
	Service life: 10 years

¹⁾ The specified maximum temperature of +80 °C does not apply to the supplied alkaline batteries. The supplied alkaline batteries can only be used up to +45 °C.

Measured values		
Acceleration	Sensor type	3-axis accelerometer
	Measuring range	±16g in the X, Y and Z axes
	Accuracy	See figure "Deviation"
	Sampling rate	1.6 kHz
	Resolution	0.1g
	Minimum shock duration	Setting range from 0 to 1,000 ms
Temperature	Measuring range	-40 °C...+125 °C
	Accuracy	±1 °C (Measuring range -20 °C...+80 °C)
	Resolution	0.1 °C

Measured values		
Relative humidity	Measuring range	0...100% rH
	Accuracy	±3% rH (measuring range 20% rH...80% rH)
	Resolution	1% rH



*) Average deviation over the measured devices

Figure 3: Deviation

Optional inputs (IM100 only)		
Digital inputs	Quantity	Max. 2 inputs
	Signal voltage "0"	<0.8 V
	Signal voltage "1"	>2.4 V
	Sampling rate	Setting range from 10 ms
Universal inputs	Quantity	2, 4, or 6 inputs
	Nominal voltage	0...5 V DC
	Resolution	12-bit A/D converter
	Measuring error	0.2% of the measuring range end value
	Internal resistance	>10 kΩ
	Sampling rate	Setting range from 10 ms

Display elements and operating controls	
Status LEDs	ACTIVE – green, BATTERY – yellow, EVENT/ALARM – red
Software	MESSKO® MLOG Software, additional licenses available as an option
Keys	IM50: 2 keys, contacts gold-plated stainless steel
	IM100: 10 keys, contacts gold-plated stainless steel
Display (IM100 only)	LCD display, black/white, 128 x 128 pixels, transreflective

Components		
Data memory	Activation time	<1 ms
	Time	Coordinated Universal Time UTC (date/time)
	Storage medium	Non-volatile EEPROM
	Event log	125,000 events (64 bytes/event)
	Shock log	400 shock events (1.9 s/shock); 1.6 kHz sampling rate
Interfaces	USB	Mini USB, type B
GPS module (optional)	Transmission values	Longitude and latitude (for geolocation), worldwide

3 Drawings

Refer to the following pages for drawings.

	Datum	Name	Dokumentnummer
gez.	-	-	SED 6991618 000 00
gepr.	-	-	Änderungsnummer
Norm.	-	-	1096314
			12

Maßangaben
in mm, soweit
nicht anders
angegeben



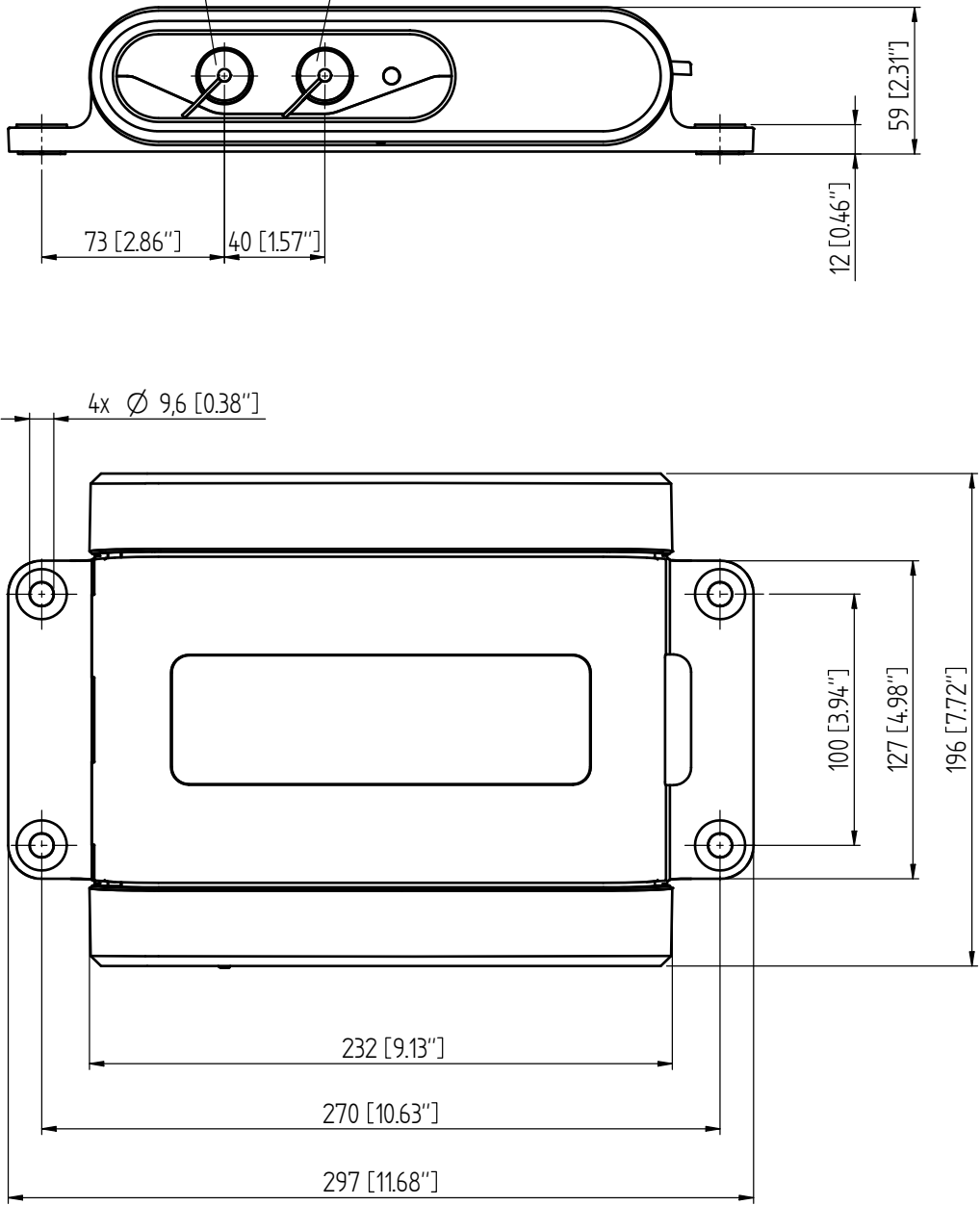
TRANSFORMER ACCESSORIES
MESSKO® MLOG
Abmessungen

Serialnummer	
Materialnummer	Blatt
101262700M	1 / 1

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Anschlusstecker / CONNECTION
USB 2.0, Typ mini B (5 pin)

Anschlusstecker externe Sensoren (nur für MLog IM100) /
CONNECTION OF EXTERNAL SENSORS (ONLY FOR MLOG IM100)



Datum	Name	Dokumentnummer
-	-	SED 6991005 000 00
gepr.	Änderungsnummer	Maßstab
-	-	-
Norm.	1096314	1:2

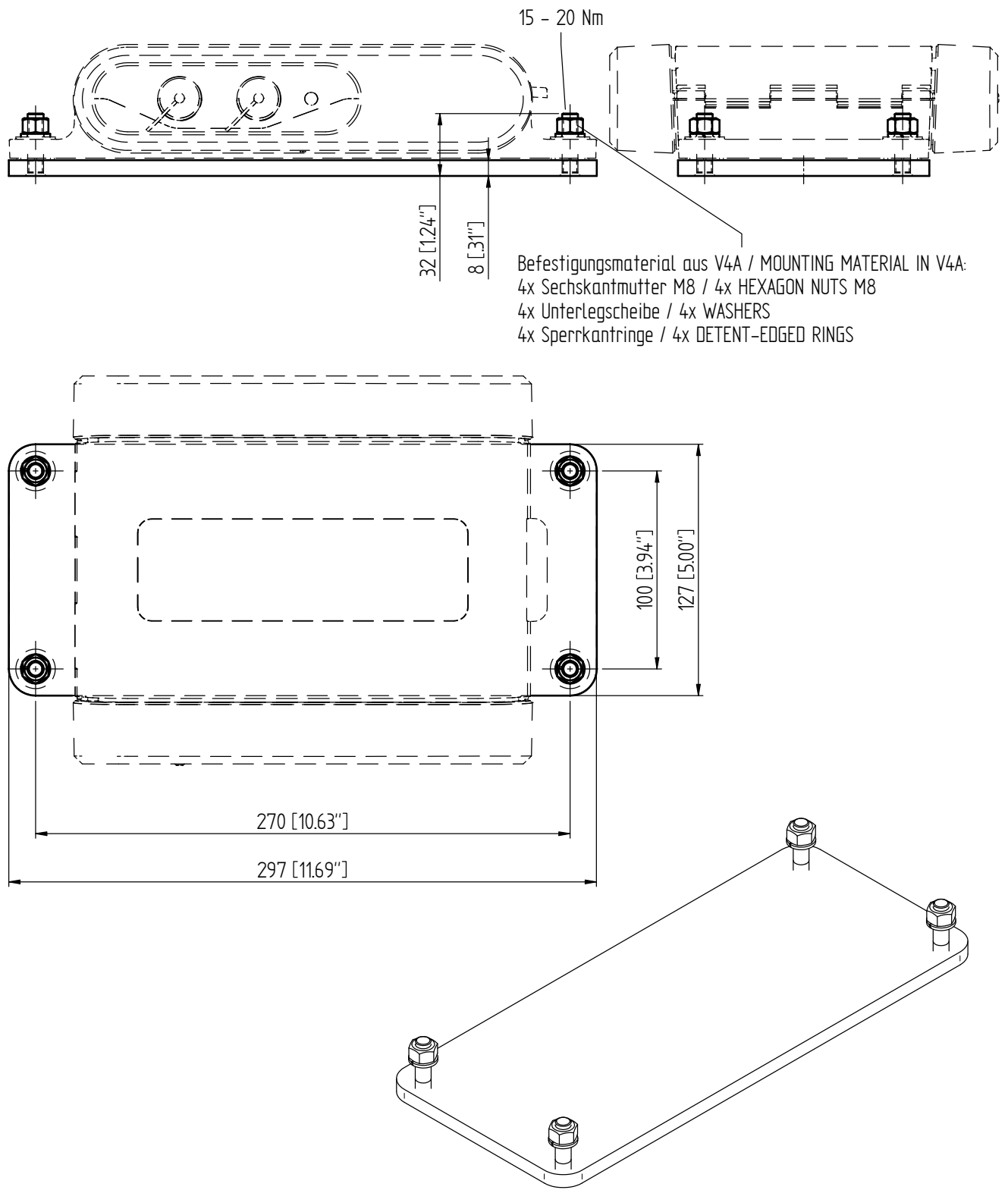
Maßangaben
in mm, soweit
nicht anders
angegeben



Zubehör Transformator
 MESSKO® MLOG
 Befestigungsplatte

Serialnummer

Materialnummer	Blatt
101262650M	1 / 1



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We reserve the right to make changes without notice.

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07/23

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THE POWER BEHIND POWER.