

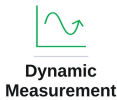
MOBILE STRAIN GAUGE AMPLIFIER



1052 DISPLAY

Type: **EHOB**

- COLOUR LCD 320 × 480
- SAMPLING UP TO 3.2 KHZ
- IP65 · 3 200 MAH BATTERY
- RS485 MODBUS-RTU



KEY DATA

Input	full bridge, ± 4 mV/V, M12 5-pin
Accuracy	≤ 0.05 %
Interfaces	USB-C · RS485 Modbus-RTU
Power	3 200 mAh battery, USB-C charging



OVERVIEW

Reading, curve and peak values in one hand: the amplifier takes any full Wheatstone bridge over the M12 socket and shows the value on a colour LCD – as a number, as a live curve or as a stored record. Peak and valley are captured automatically, up to 200 records are kept in the device, and two alarm points can be set. Power comes from the built-in 3 200 mAh battery, charged over USB-C; RS485 with Modbus-RTU carries the data to a PC or PLC.

MEASUREMENT	DISPLAY AND INTERFACE
• full bridge 88 Ω ... 5 kΩ · $\pm$ 4 mV/V • sampling 50 · 200 · 800 · 3 200 Hz • accuracy $\leq$ 0.05 % · IP65	• colour LCD 3.5 in, 320 × 480 • value, live curve and stored records • USB-C and RS485 Modbus-RTU



TECHNICAL DATA

INPUT AND MEASUREMENT

Sensor type	full Wheatstone bridge, 88 Ω ... 5 k Ω
Input signals	EX+, EX-, SIG+, SIG- · TEDS on pin 1
Excitation voltage	3 V DC
Measuring range	$\pm$ 4 mV/V
Sampling rate	1 Hz ... 3.2 kHz · steps 50 · 200 · 800 · 3 200 Hz
Units	t · kN · kg · lb · N · g · Nm · mV/V

ENVIRONMENT AND MECHANICS

Operating temperature	-20 ... +50 °C
Protection	IP65
Weight	290 g
Width and depth	132 mm wide · 20 mm deep
Rear mounting	M4, hole spacing 64 × 120 mm
Connection	M12 socket, 5-pin
Housing	portable hand-held device

DISPLAY MODES

Real time data	measured value, unit and alarm state
Real time graph	live curve with current peak value
Historical graph	stored curve of a recorded run
Historical record page	list of the stored peak and valley records

OUTPUTS AND INTERFACES

Interfaces	USB-C · RS485
Protocols	Modbus-RTU · ASCII active upload · HEX custom upload
Default baud rate	19 200, configurable
Alarm output	relay

DISPLAY AND OPERATION

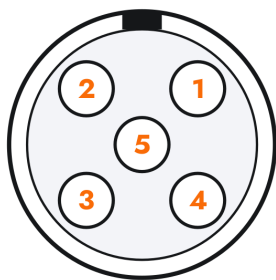
Display type	colour LCD, 3.5 in, 320 × 480
Display range	-99 999 ... 999 999
Reading aids	drag pointer · unstable zero indicator
Peak and valley	captured automatically, several capture modes
Data storage	up to 200 peak and valley records
Alarm points	2 · upper limit, lower limit, peak/valley, 20 % overload

POWER SUPPLY

Supply voltage	5 V DC over USB-C
Battery	3 200 mAh, rechargeable



ELECTRICAL CONNECTION



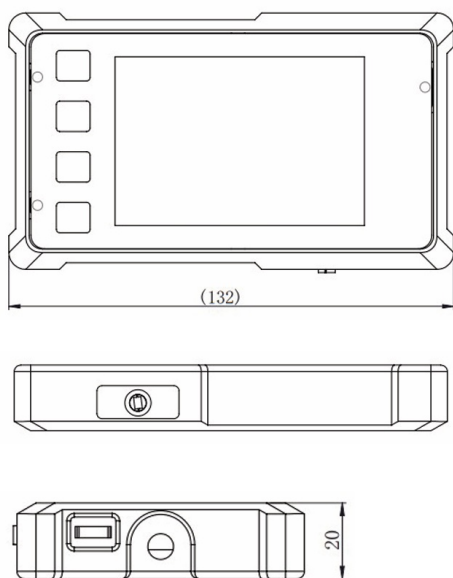
- 1** TEDS
- 2** – Signal
- 3** + Signal
- 4** – Excitation
- 5** + Excitation

View: plug side

M12, 5-pin · full Wheatstone bridge $88\ \Omega \dots 5\ \text{k}\Omega$, excitation 3 V DC

M12 socket, 5-pin.

DIMENSIONS (mm)



All dimensions in mm. Left drawing, right rear side with hole pattern.

COMPLIANCE AND CERTIFICATION



IP65

housing

Device type: EOE.

