

MOBILE STRAIN GAUGE AMPLIFIER

Type: **EOE**

- COLOUR LCD 320 x 480
- SAMPLING UP TO 3.2 kHz
- IP65 · 3 200 mAh BATTERY
- RS485 MODBUS-RTU



IP65



Display

Dynamic
Measurement

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

- Full bridge 88 Ω ... 5 k Ω · $\pm$ 4 mV/V
- Sampling 50 · 200 · 800 · 3 200 Hz
- Accuracy $\leq$ 0.05 % · IP65

DISPLAY AND INTERFACE

- Colour LCD 3.5 in, 320 x 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

DISPLAY

Display type	colour LCD, 3.5 in, 320 x 480
Display range	-99999 ... 999999
Display modes	real time value · live curve · stored
Reading aids	drag pointer · unstable zero indicator

DATA AND ALARM

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
Alarm output	relay

POWER AND INTERFACE

Supply voltage	5 V DC over USB-C
Battery	3 200 mAh, rechargeable
Interfaces	USB-C · RS485
Protocols	Modbus-RTU · ASCII active upload · HEX custom upload
Default baud rate	19 200, configurable

ENVIRONMENT AND MECHANICS

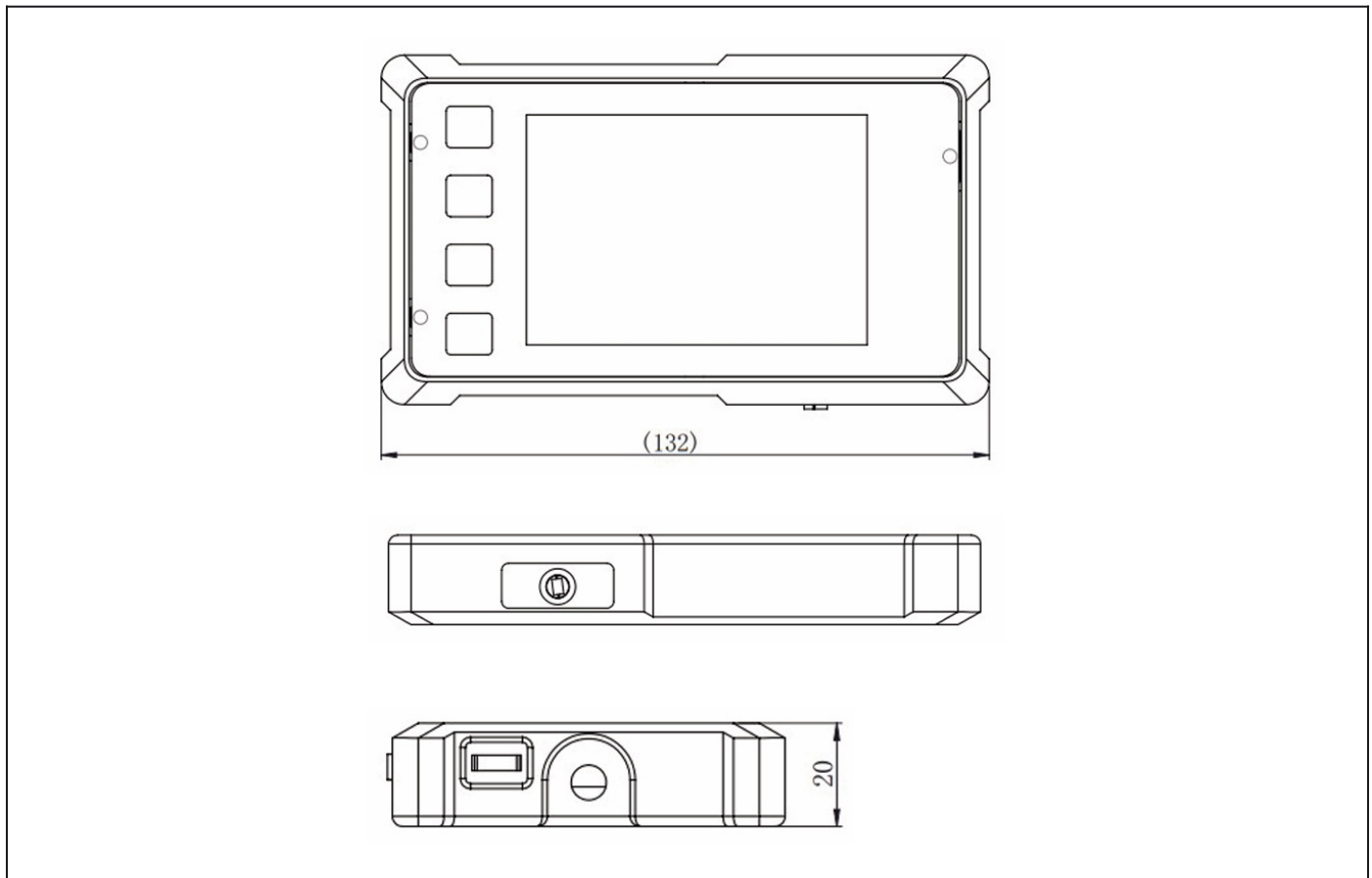
Operating temperature	-20 °C ... +50 °C
Protection	IP65
Weight	290 g
Width and depth	132 mm wide · 20 mm deep
Connection	M12 socket, 5-pin
Housing	portable hand-held device

DISPLAY MODES

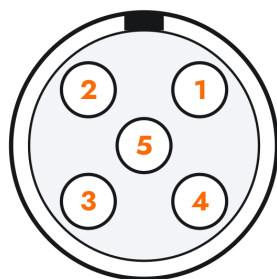
Real time data	measured value, unit and alarm state
Real time graph	live curve with current peak value
Historical graph	stored curve of a recorded run
Historical record page	list of the stored peak and valley records



DIMENSIONS



TERMINALS



- | | |
|----------|---------------------|
| 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

