

## MEASURING DEVICES



### EPH 200A

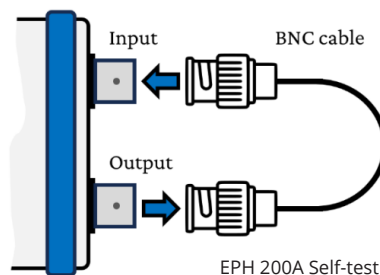
THE EPH 200A IS AN INNOVATIVE, BATTERY-OPERATED HANDHELD METER THAT FUNCTIONS AS BOTH A pH/ORP METER AND A pH/ORP SIMULATOR. THIS VERSATILE DEVICE IS IDEAL FOR ACCURATE WATER MONITORING.

#### FEATURES:

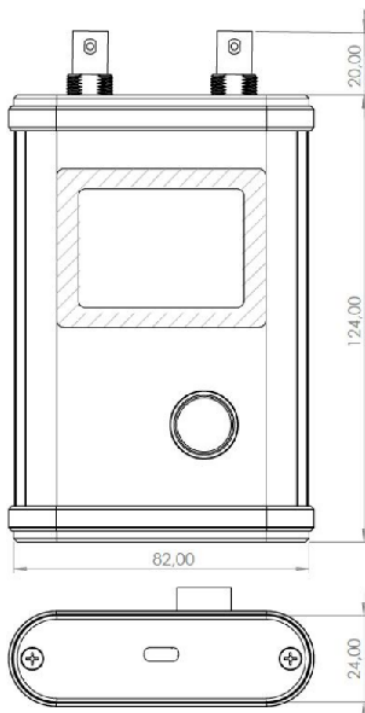
- WORKS WITH ANY ANALOG pH PROBE
- WORKS WITH ANY ANALOG ORP PROBE WITH REFERENCE SYSTEM
- HIGH-PRECISION pH/ORP VALUE INPUT
  - pH: 0 ... 14 pH RANGE, 0.001 pH DISPLAY RESOLUTION, NOISE-FREE
  - ORP: -1000 mV ... +1000 mV RANGE, 0.1 mV DISPLAY RESOLUTION, NOISE-FREE
  - >100 GΩ INPUT IMPEDANCE
  - 24-BIT ADC
- HIGH-PRECISION pH/ORP VALUE OUTPUT SIMULATION
  - pH: 0 ... 14 pH RANGE, 0.05 pH STEPS
  - REDOX: -1000 mV ... +1000 mV RANGE, 5 mV STEPS
  - 1 MΩ OUTPUT IMPEDANCE
  - AUTOMATIC OFFSET CORRECTION WHEN SWITCHING ON
  - 14-BIT DAC
- INTEGRATED RECHARGEABLE LITHIUM-ION BATTERY
  - 2000 mAh CAPACITY
  - RECHARGEABLE WITH STANDARD USB CHARGER
  - USB-C PORT
- PROTECTION CLASS: IP54
- ROBUST ALUMINUM HOUSING

#### APPLICATIONS:

- FUNCTION TEST OF THE pH/ORP PROBE
- TESTING THE pH/ORP INPUT OF SWIMMING POOL CONTROLLERS



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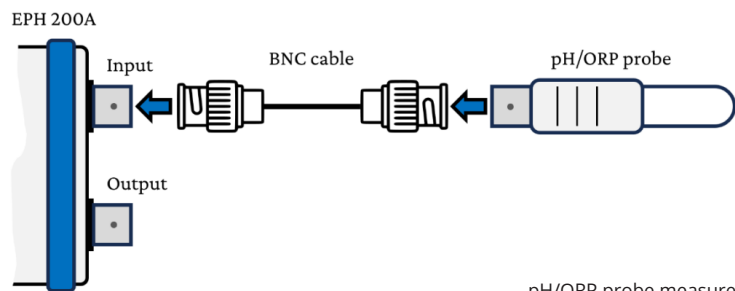


Dimensions in mm

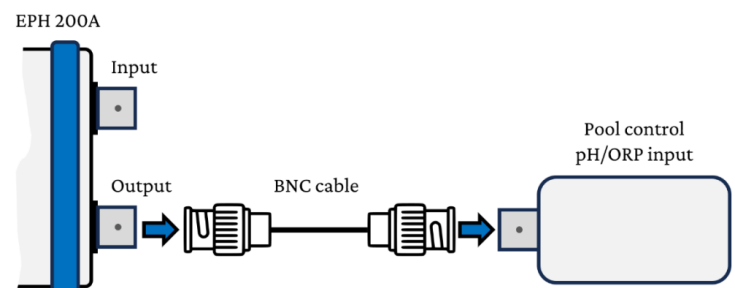
**SPECIFICATIONS:**

<b>Art. No:</b>	<b>7015791M</b>
Color	white/blue
Operating temperature	max. 50°C
pH value noise-free resolution	0,0006 pH (Input connected to output)
ORP value Noise-free resolution	50 µV (Input connected to output)
Reference voltage	2,5 V
<b>Input resistance</b>	<b>(min. 100) 500 Gigaohm</b>
Time constant*	1 m
ADC resolution	24 Bit / 2,5 V
<b>Output resistance</b>	<b>1 MΩ</b>
Time constant	10 ms
DAC resolution	14 Bit / 2,5 V
pH step size	0 - 14 pH
ORP step size	-1000 mV / +1000 mV
USB charging power	max. 500 mA
Quiescent current	max. 30 µA

\* Depending on the output impedance of the probe Rprobe:  $\tau = (1 \text{ M}\Omega + R_{\text{probe}}) 1 \text{ nF}$ .



pH/ORP probe measurement



Testing the pool control

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ACCESSORY:

Art.-Nr.	Type	VPE
7015796M	MAITEC ADAPTER PLUG BNC TO S7/S8 FOR pH/Rx METER	1
7015797M	MAITEC adapter cable 2m BNC to S7/S8 for pH/Rx meter	1



7015796M



7015797M

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