

UNIVERSAL POTENTIOSTAT MPH471

Type: MPH471

Description

The instrument enables measurement of amperometry, potentiometry and conductometry. Communication with the computer is provided via USB or Bluetooth. This hand-held device is equipped with GPS navigation so the measured data may be enhanced by the exact coordinates of the location where the measurement was made. Measured data can be stored and later processed in a PC because of the SD card slot incorporation. The ability to record a waveforms or integrate the measure values is enabled. Basic evaluation methods are also implemented - linear and non-linear calibration and standard addition method is available. The influence of the type of oxygen electrode membrane, temperature or gas solubility can be compensated for the measured values. The measured data are automatically recalculated and displayed in units of current, voltage, concentration ($\text{g}\cdot\text{L}^{-1}$ or $\text{mol}\cdot\text{L}^{-1}$) or saturation. Potentiometric measurement allows connection of pH electrodes and ISE.



Physical Parameters

Dimensions:

Weight: 400 gms
 Length: 156 mm
 Height: 95 mm (BNC connector included)
 Width: 25 mm

Technical Parameters

- Battery life up to 200 hours depending on operating mode.
- Excellent analytical tools (graphs, unit conversions, internal standard method for potentiometry, coulometric titration, 10 Henry constants for various redox active gases)
- Power and data communication via USB, the possibility of connecting via Bluetooth
 Data logging to memory card
- Up to 5-point calibration for ISE and pH electrodes
- Up to 4-point conductivity cell calibrations allow you to compensate for measurement non-linearity

- GPS equipment allows field measurements with location storage.
- Calibration stored separately in the device (possibility to change the memory card without having to recalibrate the device).
- Possibility of separate calibration for 4 probes for amperometry and potentiometry
- Possibility to use different temperature sensors (PT100, PT1000, Ni1000, ATC Monocrystals)
- Advanced power management (it is possible to set the display to sleep and automatically turn off the device according to the user's wishes
DFS technology for accurate conductivity measurement

Device Usage

- Measurement of pH
- Measurement of concentration
- Temperature measurement
- Voltage measurement
- Conductivity measurement
- Dissolved oxygen measurement
- Amperometry

Ordering Information

- The order is specified by whole product code
- Minimum order quantity - 1 potentiostat
- Delivery time for standard MPH471 is 6 weeks from receipt of order