

METERS



pH-1 mini

The pH-1 mini is a precise fiber optic pH meter. It is used with pH sensors based on a 2 mm optical fiber. APC is connected to run the easy-to-use software and control measurements. pH-1 mini is equipped with an analogue out and a trigger input. pH sensors type HP5 & HP8 are compatible with the pH-1 mini and are optimized for physiological solutions.

- For use with non-invasive pH sensors & flow-through cells
- One calibration for a multitude of sensor spots
- Software included

TECHNICAL

Specifications

pH sensors	HP5 / HP8	
Temperature sensor	1 x Pt1000 temperature connector (sensor included)	
Temperature performance	0 °C to + 50 °C, resolution ± 0.1 °C, accuracy ± 1.0 °C	
Power supply	18 VDC / 5 W (110 - 240 VAC, 50/60 Hz, adapter included)	
Temperature: operating / storage	0 °C to + 50 °C / - 10 °C to + 60 °C	
Relative humidity	up to 80 % (non condensing)	
Dimensions	210 mm x 120 mm x 50 mm	
Weight	0.65 kg	
Digital interface	RS232 interface (with RJ connector to serial port, cable included)	
External trigger	TTL compatible with galvanic isolation (BNC connector)	
	Dual outputs, 0 - 4,095 mV, resolution 12 bit, accuracy ± 10 mV (BNC connectors)	
	10 mV represent	
Analogue output specifications	pH	0.1 pH
	Temperature	1 °C
	Phase	0.25 °

SENSORS



pH Dipping Probe DP-HP5

The pH dipping probe DP-HP5 consists of a polymer optical fiber where one end is coated with a pH sensitive foil. It is covered with a high grade steel tube to protect the fiber and the sensor material. The steel tube has an outer diameter of 4 mm and a length of 10 cm. Other lengths are available on request. Due to its slender shape the probe can be used for profiling applications in coarse sediments. As this probe is based on a polymer optical fiber it is compatible with temperatures up to + 50 °C.

- Pressure resistant (max. 5 bar)
- No reference electrode necessary
- No electrolyte solution to replenish
- Easy exchange of pre-calibrated sensor membranes
- Easy and effective one-point calibration or highly precise multi-point calibration supported by the software

TECHNICAL

Specifications*

Measurement range	5.5 - 8.5 pH
Resolution	at pH = 7: ± 0.01 pH
Accuracy	at pH = 7: ± 0.05 pH
Drift	at pH = 7: < 0.005 pH per day (sampling interval of 1 min.)
Measurement temperature range	from + 5 to + 50 °C
Response time (t_{90})**	< 120 sec.

Properties*

Compatibility	Aqueous solutions, ethanol (max. 10 % v/v), methanol (max. 10 % v/v), pH 2 - 10
Cross-sensitivity	Reduced to ionic strength (salinity); a high concentration of small fluorescent molecules in the visible range can interfere
Calibration	pH dipping probes are pre-calibrated; re-calibration is possible
Storage stability	18 months provided the sensor is stored in the dark

*provided pH dipping probes are used without further handling in physiological solutions

**equilibrated dipping probe kept in well stirred solution at + 37 °C

ACCESSORIES



Manual Micromanipulator MM

The Manual Micromanipulator MM is specifically designed for PreSens needle-type microsensors (NTH). The system allows moving the microsensor vibration-free in 3 axes with μm reading accuracy. A solid base plate ensures a stable set-up of the micromanipulator and enables safely tilting the whole system up to 90° - so you can use it in any required position. With the safe-insert function the microsensor retracted in its steel needle can be securely inserted into your area of interest. The sensor tip can then be extended delicately and safely with μm reading accuracy, without risk of breaking the sensor fiber.




- Safe-insert function for retractable microsensors
- 90° tilting mechanism
- Specifically designed for PreSens microsensors
- Vibration-free micromanipulation in 3D
- Fine drive with μm reading accuracy
- Solid base plate for most stable set-up

TECHNICAL

Specifications

Compatibility	Needle-type Housed (NTH), Profiling (PM) and Implantable (IMP) oxygen & pH microsensors
Dimensions	230 mm x 130 mm x 200 mm
Weight	Weight w/o base plate: 1,1 kg Weight with base plate: 3 kg
Travel range	x-axis: 37 mm, fine drive: 10 mm y-axis: 20 mm z-axis: 25 mm
Reading accuracy	Coarse adjustment: 0.1 mm Fine adjustment: 0.01 mm
Coarse positioning	x-axis: 70 mm
Rotability	360°
Material	Aluminum & steel

GET IN CONTACT

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