



High quality pH meter for Sentron ISFET probes

Sentron offers a comprehensive line of high quality meters and probes for glass-free pH measurement. The meter line is created around our proprietary ISFET pH sensor that offers accurate and reliable pH measurements for demanding applications.

The SI400 meter contains all the features required for stand alone pH measurements and is designed to work seamlessly with our SI series probes.

Accurate and reliable

The SI400 meter's advanced electronics can achieve an accuracy of 0.01 pH, a level that is sufficient for most field and laboratory applications.

The meter's ability to offer reliable pH measurements in demanding conditions is the result of the robust ISFET sensor integrated into our probes. Unlike glass pH electrodes, ISFET pH sensors are highly resilient and do not require wet storage.

User friendly

A large backlit 3.2" LCD colour display allows convenient determination of measurement values and provides clear information for operation. The pH value is displayed in a large font and is continuously displayed during menu operation.

The intuitive and user friendly interface allows quick access to the meter's advanced features and settings.

Large ergonomically placed buttons facilitate easy menu navigation and selection of options.

Intelligent features

The meter contains many helpful features that assist in performing accurate pH measurements:

The intelligent calibration wizard simplifies the calibration process, reducing calibration time and the chance for errors. A full calibration report is displayed at the end of the procedure. The SI400 supports 1- and 2-point calibration.

For advanced users, bias setting can be manually defined and the current pH value stored and recalled at a later time.

The meter contains built-in user definable auto screen-off and auto-off settings that prevent screen burn-in and extend battery time.

The SI400 also has several integrated options for connection of accessories and mounting (e.g. on a stand).

Rugged design

The SI400 has been designed for professional use. It has an IP65 rating and a rubber boot that helps to absorb shocks. The USB port is well protected by a tightly sealing cover and the casing and battery door are fitted with rubber seals.

The light-weight and compact body makes it highly suitable for field use and handheld applications. The meter has also been designed so that it is stable when placed on a table, making it well suited for laboratory table-top use.

The meter's three AA-batteries can be recharged using the supplied AC adapter. If required the rechargeable batteries can be replaced by conventional non-rechargeable AA-batteries, allowing long term operation when no power source is available.

The SI400 meter is available in two colours: either with an "outdoor" grey or a "laboratory" white boot.



Highlights

- Accurate and reliable
- User friendly
- Intelligent features
- Rugged design

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About Sentron

Sentron is an innovative technology company specialized in the development and production of small sensors for medical and analytical applications. The company leverages more than 15 years of experience to develop and produce its high quality ISFET pH and pressure sensors. Peripheral equipment for the sensors, like measurement instruments, are designed, developed and produced in house as well.

Sentron is ISO 13485: 2003 certified for the development, manufacture and sales of sensors, subassemblies and meters for the determination of physical and chemical measured values in the engineering field, including medical applications.

Sentron is part of Wellingq, a Dutch high tech company with activities in sensing and medical devices. Please visit www.wellingq.com for more information.

Please contact one of our distributors or visit our website for more information about the company, potential applications and for probes and accessories available for this meter.

Specifications

| | SI400 7400-0xx | SI600 7600-0xx |
|--|---|-------------------|
| pH | | |
| Accuracy* | +/- 0.01 | +/- 0.005 |
| Resolution* | 0.01 | 0.005 |
| Range* | pH 0.00...14.00 | |
| Calibration | Smart calibration wizard | |
| 1-point | ✓ | ✓ |
| 2-point | ✓ | ✓ |
| 3-point | | ✓ |
| 5-point | | ✓ |
| Buffer types | | |
| Sentron | ✓ | ✓ |
| DIN, NIST, JIS | | ✓ |
| Automatic Temperature Correction (ATC) | ✓ | ✓ |
| Temperature | | |
| Accuracy* | +/- 0.5 °C (0.9 °F) | |
| Resolution* | 0.1 °C (0.1 °F) | |
| Range* | -20...120 °C (0...248 °F) | |
| Options | | |
| Languages | English, French, German, Dutch, Spanish | |
| Bias setting (user definable fixed offset value) | pH -9.99...9.99 | |
| Data handling | | |
| Store current measurement value(s) manually | max. 10 | max. 500 |
| Log measurement value(s) automatically at user definable interval 1-60 sec | | max. 65000 |
| Send logged data file to PC through USB | | ✓ |
| Remote readout from PC through USB (max. 1 readout per sec.) | | ✓ |
| Send calibration report(s) to PC through USB | | ✓ |
| Alarm setpoints and warnings (user definable min-max settings) | | |
| pH | | ✓ |
| Temperature | | ✓ |
| Stability check (change in pH per unit time) | | ✓ |
| Physical properties | | |
| Dimensions (W x H x D) | 80 x 160 x 36mm (3.13 x 6.30 x 1.14") | |
| Weight | 379 gram (13.4 oz) | |
| Protection rating | IP65 (splash water resistant) | |
| Protective rubber boot | White(7x00-005) or Grey(7x00-010) | |
| Batteries | 3 x AA NiMH 2400mAh (15A-ANSI or IEC-LR6) | |
| Operation time on batteries | 7h continuous / 26h with power save enabled | |
| Replacable | ✓ | ✓ |
| Rechargeable via USB (5VDC - minimum 500mA to start charging) | ✓ | ✓ |
| Recharge time (empty-full, with Sentron charger, @ 1000mA) | 7 hours | |

* dependent of used probe type

