



## Advanced 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 SI600 meter contains extensive features required for high-end pH measurements and is designed to work seamlessly with our SI series probes.

### Accurate and reliable

The SI600 meter's advanced electronics can achieve a resolution of 0.005 pH for very sensitive pH measurements.

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 SI600 supports 1-, 2-, 3- and 5-point calibration.

The meter also contains various settable alarms that provide an audible warning when measured pH or temperature values are out of range or when maximum time between calibrations has been exceeded.

For advanced users, bias setting can be manually defined.

### Rugged design

The SI600 has been designed for professional use. It has an IP65 rating and a rubber boot that helps to absorb shocks.

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 or exchanged with spare batteries when no power source is available.

### Data acquisition & PC communication

The SI600 has advanced data acquisition capabilities, that permit extensive storage of measured data points and continuous data logging at a user defined time interval.

Stored and logged data points can be transmitted to a PC through the USB port and with suitable software the meter's momentary pH value and temperature can be queried.

The SI600 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
- Data acquisition
- PC communication

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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 Welling, a Dutch high tech company with activities in sensing and medical devices. Please visit [www.welling.com](http://www.welling.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
<b>pH</b>		
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)	✓	✓
<b>Temperature</b>		
Accuracy*	+/- 0.5 °C (0.9 °F)	
Resolution*	0.1 °C (0.1 °F)	
Range*	-20...120 °C (0...248 °F)	
<b>Options</b>		
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)		✓
<b>Physical properties</b>		
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

