

Endress+Hauser 

## Memosens

the first digital pH sensor opens a new era in pH measurement



In a time when it is more difficult to surprise the market with an outstanding improvement, Endress+Hauser have managed to do a leap forward.

With the release of the new digital pH electrode **Memosens**, Endress+Hauser have opened a new era in pH measurement with the first:

- Digital pH measurement
- Integrated memory in the electrode for storage of calibration data
- Contact free sensor connection by inductive coupling
- Error message if electrode disconnected
- Auto sensor recognition

### Fast Sensor change

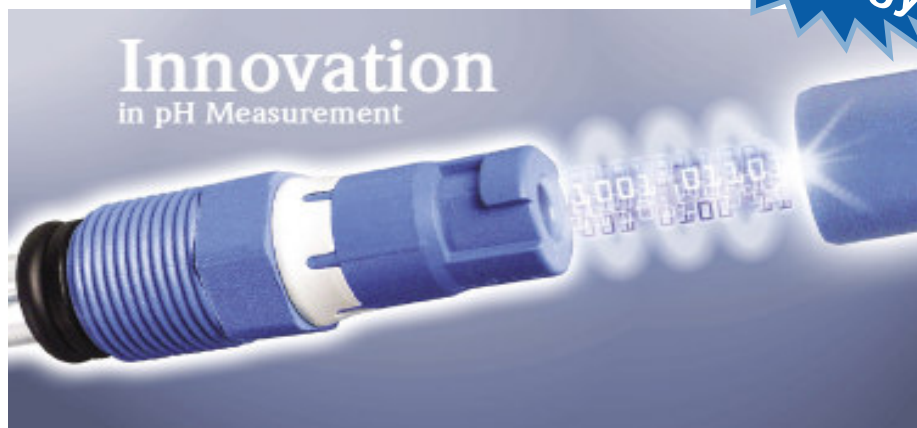
According to Murphy's law pH sensors will only fail over the weekend, when it is raining or snowing and when the shift is about to finish.

For the first time it is now possible to pre-calibrate pH sensors under optimum conditions, in the laboratory, and have them ready for installation when required.

Further, the need to rewire from the sensor to the junction box with great care, to minimise contact problems, is no longer necessary.

Rather, you can change a **Memosens** pH sensor in a matter of seconds and keep measuring point downtime to an absolute minimum.

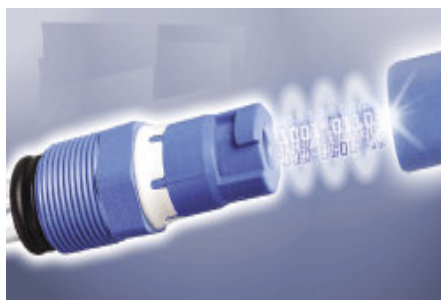
In addition, when a new electrode is mounted, calibration data is automatically transferred to the transmitter and used to calculate the current pH value.



### Problems eliminated

Another key feature of **Memosens** is the non-contact inductive electrical connection between the electrode and cable.

In conventional pH systems, low currents and very high sensor internal resistances require a high impedance connection to the transmitter. The result is that moisture in the connection can change the measured value and may even result in measurement failure.



The non-contact inductive electrical connection of **Memosens** eliminates this problem as the connection is immune to contamination and moisture - the two key problems of traditional connections.

Apart from the elimination of measuring errors, the new bayonet coupling and inductive connection system enables quick and easy sensor changes in the field without worry - replacing a sensor in wet or dirty conditions is no longer an issue.

### Memosens eliminates problems based on:

- Corrosion
- Contacting problems
- Salt bridges
- Moisture
- Leakages
- High impedance connections
- Ground loops

### Other outstanding features

If the digital signal flow between sensor and transmitter is interrupted an error message is displayed. There is no chance of a false reading due to a broken cable or connection.

In addition to calibration data, **Memosens** pH sensors store information such as total operating hours and hours of operation at max/min pH values and temperatures. Invaluable information for maintenance planning.

The cost of cabling from a **Memosens** digital pH sensor is lowered due to the use of standard data cable instead of expensive pH cable.

**All these features at no higher cost than a conventional system.**

For more information on MemoSens, please circle Enquiry No:

**1101**

Alternatively, contact Mark Armstrong to discuss your applications