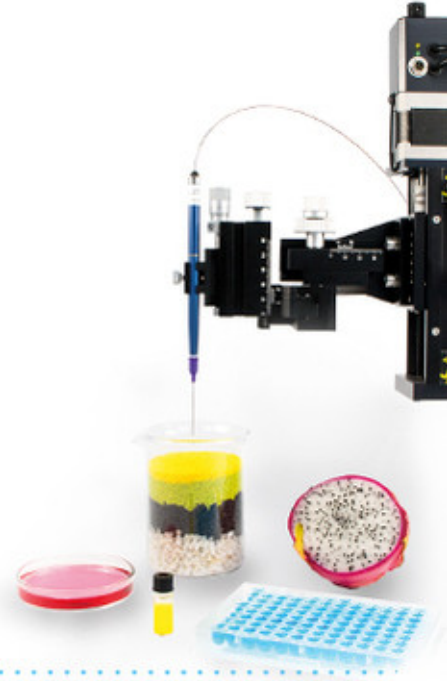




Microprofiling Solutions

for oxygen and pH



Dear Max Mustermann

You need to measure high spatial resolution profiles in μm to cm range? Then we would like to introduce to you our extended [product range for profiling solutions](#).

The combination of our new Profiling Microsensors (PM) for oxygen or pH with either the Automated or Manual Micromanipulator and one of our well proofed meters will allow you safe insertion into samples and to measure stable & vibration-free for extended periods of time. Or do you need exact localized point measurements or repeated profiling? Profit from PreSens products while measuring in semi-solid substrates, such as e. g. sediments, biofilms or tissue.

Oh, by the way - interested in our [special bundle offer](#)?

Enjoy reading and we are keen on your feedback!

Your PreSens-Team

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Product News

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Oxygen & pH Microsensors for Profiling Applications

Profiling Microsensors (PM) for oxygen or pH are the most robust microsensor version PreSens offers - with a firmer fiber construction and a splash proof metal housing. They are specifically designed for profiling applications and should be used for all profiling applications in semi-solid substrates, e. g. in sediments, biofilms or tissue.

- Measuring range O₂: 0 - 100 % O₂ (PSt7), or 0 - 10 % O₂ (PSt8)
- Measuring range pH: 5.5 - 8.5 pH
- High spatial resolution
- Precise vertical localization
- No electrical interference due to optical measurement

>> Technical data can be found in the [brochure on our webpage!](#)

Our Recommendation: Combine PreSens Microsensors ...



with the Automated Micromanipulator

The Automated Micromanipulator is a fully automated system, specifically designed for profiling applications. The system allows moving the Profiling Microsensors (PM), but also needle-type housed (NTH) and implantable (IMP) microsensors, vibration-free with μm reading accuracy and enables exact localization of the sensor in the sample. Some of its features are:

- Software PreSens Profiling Studio included
- Adaptable to any sample
- Individual profile and step-zone definition
- Compact, with additional manual motor control
- Easy USB connection

>> For technical details please have a look in our [new brochure!](#)



with the Manual Micromanipulator

The Manual Micromanipulator is specifically designed for PreSens microsensors (NTH and IMP) and allows moving the microsensor vibration-free in 3 axes with μm reading accuracy. Some features:

- safe-insert function for NTH microsensors
- Solid base plate for most stable set-up
- 90° tilting mechanism

>> For technical details please have a look in our [new brochure!](#)

Special Bundle Offer until October 31, 2016:

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Our bundle offer includes the Automated Micromanipulator with Heavy Stand and matching Transport Case and the Microx 4 with a 25% discount! We will be happy to send you your [personalized quote](#).

Application Examples

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Profiling of Sediments & Biofilms

The Combination of the Profiling Microsensors (PM) and the Automated Micromanipulator is the ideal tool for oxygen or pH measurements in sediment and biofilm applications. With a free choice of step zones and wait times different layers inside the sample can be monitored and assessed in step sizes down to 10 μm . The software visualizes the online measurements, so you can follow gradients and identify boundaries immediately while the sensor is automatically moved inside the sample.



Automated Measurements in Biological & Environmental Research

The Automated Micromanipulator's set-up is highly adaptable and can be adjusted to almost every sample. As the sensor is moved vibration-free with the motorized stage, localization inside tissues or detection of gradients inside smallest volumes can be realized. But also water quality assessment or respiration measurements can profit from automated profiling. The clear database supported storage allows easy overview in long-term experiments with different measurement cycles.



Profiling in Medical Research & Life Science Applications

High resolution oxygen or pH measurements with the Automated Micromanipulator can provide vital information when examining tissue constructs, tumor tissue samples, or cell cultures. The Automated Micromanipulator can be mounted to the PreSens Heavy Stand, which enables a most stable set-up. The microsensor can then be moved automatically, and absolutely vibration-free in step sizes down to 10 µm. The online visualized and annotated measurement data can help control culture conditions or analyze the development of gradients in real time.



Microsensors - Ideal Tools for Packaging & Quality Control

Oxidative deterioration shortens the shelf life of products. Knowledge about the oxygen content inside packaging is therefore extremely important. With oxygen microsensors the oxygen content in even smallest headspaces, inside blister packaging or pharmaceutical vials can be easily determined. Needle-type microsensors are perfectly suited especially for the measurement inside non-transparent containers. The Manual Micromanipulator can be applied to securely pierce the packaging material and insert the microsensor in the headspace of the container.

PreSens Events

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Meet Us at One of Our Upcoming Exhibitions:

September 21 - 23, 2016

Thailand LAB International 2016

[thailandLAB2016](#)

Bangkok, Thailand, BITEC, Hall EH101 / EH102, Booth C13

October 20 - 21, 2016

1. Asian Pacific Plant Phenotyping Conference

[APPPcon Beijing 2016](#)

Beijing, PR China, Xiedao Group Resort Beijing, 3 O'Clock Agricultural Theme Park

You would like to learn even more about PreSens Precision Sensing? Please visit our homepage www.presens.de and don't hesitate to contact us. Any feedback will be appreciated.

With kind regards

Christina Schlauderer

Communications



PreSens Precision Sensing GmbH

Am BioPark 11 - 93053 Regensburg - Germany

Phone +49 941 942 72 109, Fax +49 941 942 72 111

christina.schlauderer@presens.de, www.PreSens.de

Trade Register Ingolstadt HRB 101505, CEO: Achim Stangelmayer

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