



## Keep Control!

### Vibration-free and High Resolution Work with the Manual Micromanipulator MM

Dear Max Mustermann

Good news for those working with microsensors: Applications with semi-solid or solid samples, which might have been quite a demanding task so far, will be much easier to deal with from now on. The reason therefore is PreSens latest accessory - the Manual Micromanipulator MM, specifically designed for our needle-type microsensors.

The MM will be of special interest for water quality assessment, respiration measurements in smallest sample volumes, or measurements inside tissue. Medical & Life Science Research will benefit from precise on-the-spot measurements and profiling inside tissue constructs. Customers from Packaging & Quality Control can securely pierce their specific packaging material to determine oxygen content in smallest headspaces, inside blister packaging or pharmaceutical vials. Last but not least, exact online measurements in different depths show that the MM is a helpful tool for sediment or biofilm applications.

The implemented safe-insert function allows to insert the sensor safely and on-the-spot into the sample. Then the sensor tip can be extended with  $\mu\text{m}$  reading accuracy. The Manual Micromanipulator MM enables vibration-free micromanipulations in 3 axes (in the x-axis even in 10  $\mu\text{m}$  steps). It can be adjusted to the measurement set-up according to your requirements. Whenever insertion of the sensor into semi-solid or solid substrates is necessary, this is the safest way to do it - without taking the risk of breaking the fragile fiber and with highest spatial resolution. And - you do not need to have a steady hand anymore!

Enjoy reading and we are keen on your feedback!

Your PreSens-Team

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## Manual Micromanipulator MM

- Vibration-free micromanipulation in 3D
- Fine drive with  $\mu\text{m}$  reading accuracy
- Solid base plate for most stable set-up
- 90° tilting mechanism
- Safe-insert function
- Specifically designed for PreSens needle-type housed (NTH) and implantable (IMP) oxygen & pH microsensors

>> Read the [new brochure](#) on the Manual Micromanipulator MM

>> [Ask for your MM quote.](#)

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### Live-Webinar

#### Metabolic Activity Inside Microfluidics

Microfluidic devices are versatile platforms for example to mimic (tissue) microenvironments and to study cellular behavior. The VisiSens Imaging System enables visualization of 2D distributions of oxygen **inside** microfluidic chips.

Join Dr. Robert Meier, R & D Imaging Solutions, and gain new insights on metabolic activity, natural or artificially produced gradients, detect metabolic hotspots, record time-series, monitor hypoxia, cellular growth or oxygen supply inside the chip with VisiSens. Learn how to easily implement, image, and benefit from VisiSens.

#### Date & Times:

June 25th, 2015 at 09:00 a.m. (CET) or 05:30 p.m. (CET)

>> [Here you will find your log-in data.](#)



### Interphex 2015

#### Make Metabolic Shifts Visible

PreSens demonstrated the new SFR vario at Interphex 2015 for the first time to the American market

PreSens' 8th participation at this year's Interphex in New York last April was the opportunity to introduce the new Shake Flask Reader SFR vario v1 to American customers. Live demos at the company booth and a presentation at the BPI theatre by Dr. Lorenz Fischer, R & D Division, on "Online Measurements of Metabolic Activity Accelerate Your Bioprocess Development" drew the visitors' interest to this first device for online measurement of biomass.

>> [Click here to read more](#)

## Meet Us at One of Our Upcoming Exhibitions:

June 17th - 20st, 2015

### **PROPAK Asia**

The 23rd International Processing, Filling and Packaging Technology Event for Asia

Bangkok, Thailand, Bitec, Bavarian Booth

June 30st - July 3rd, 2015

### **SEB Prague**

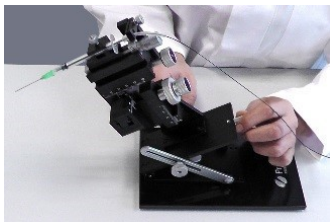
Annual Main Meeting of the Society for Experimental Biology

Prague, Czech Republic, The Clarion Congress Hotel, Booth 9

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## PreSens TV ...

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### ... also welcomes the new Manual Micromanipulator MM

Three brand-new "How to ..." videos ease your first contact with the latest PreSens accessory. These, then, are in detail

- [MM Set-Up Adjustment](#)
- [MM Mounting](#)
- [MM Profiling](#)

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

With kind regards

**Christina Schlauderer**  
Communications



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