



SensorPlugs

for Microfluidic & Millifluidic Chips

Join the 2020 Competition

Dear Dr. Max Mustermann

Online monitoring of O₂, pH and / or CO₂ is essential for the results in your millifluidic and microfluidic applications? And a detailed evaluation of these analytes would increase your chances of success? Then apply for our SensorPlugs competition 2020 and be one of the few to try this new sensor format (Mini-Luer based version) for free!

Interested? Then continue reading and find all information you need for your application below.

You would like to meet us in person and to have a closer look at our SensorPlugs? Then visit us at the [microTAS 2019](#) (booth 20) in Basel, Switzerland, from October 27 - 31, 2019.

We wait for you and your challenging application!

Your PreSens Team

- >> [Product Information](#)
- >> [Competition 2019](#)
- >> [Upcoming Exhibitions](#)

Product Information on SensorPlugs

Online O₂, pH & CO₂ Monitoring in Microfluidic & Millifluidic Chips

With the appropriate chip and port design, the SensorPlugs can be integrated at one or several positions on your microfluidic device. An optical sensor is attached to an e.g. Mini-Luer based plug, which can easily be integrated in your chip via the corresponding port. The plug is connected to a single-channel meter for oxygen, pH or CO₂ via a polymer optical fiber (1 mm diameter) and the sensor is read out non-invasively, so there is no risk of contamination. SensorPlugs are delivered beta irradiated and pre-calibrated so you can start your measurements right away. We offer customized SensorPlug formats as well as support for chip and port designs including the VisiSens 2D imaging system for preliminary evaluation of your chip. The measurements of all SensorPlug types can be controlled from one PC with the PreSens Measurement Studio 2 software.

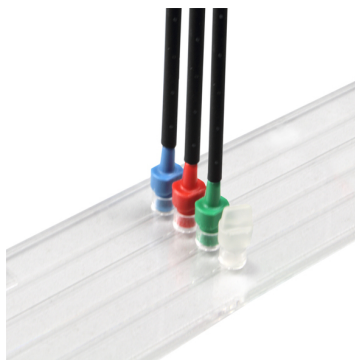


- Non-invasive pH, O₂ & CO₂ monitoring in millifluidic & microfluidic chips
- Pre-calibrated sensors, plug & play
- Beta irradiated
- Compatible with PreSens Measurement Studio2, standard PreSens meters and EOMs

Examples for Applications:

Cell Culture Microenvironment Monitoring

SensorPlugs offer the unique possibility to measure contactless directly inside the channel. This way the cell's undisturbed microenvironment can be monitored and investigated. Tumor cell research, the assessment of cell metabolism or cell signaling in organ-on-a-chip applications will profit from this information.



Reaction Monitoring in Microfluidics

Oxygen, pH and CO₂ are important parameters in many chemical reactions. Direct monitoring in the microchannels can enable precise control of the reactions and deliver decisive information about reaction speed. Oxygen monitoring with SensorPlugs is a further step towards real Lab-on-a-Chip applications.

[>> back to overview](#)

SensorPlugs Competition 2020



Apply today!

The SensorPlugs Contest is a competition between different research groups working on chip designs, Lab-on-a-Chip and Organ-on-a-Chip applications. Monitoring of O₂, pH and/or CO₂ is an important factor for success. Each participant must apply on behalf of a university, institution or company. The deadline for the receipt of written applications is **December 15th, 2019**.

Once the participants are chosen, PreSens will provide cost-free read-out units including software and a contingent of SensorPlugs for a period of max. two months (March / April 2020) to the contestants. You use the system for your experiments and prepare a report describing your results, and how the SensorPlugs contributed to your work.

A scientific committee will then judge all competition entries and the winner will be awarded with:

- a set of transmitters for monitoring O₂, pH and CO₂ with all necessary accessories
- a voucher worth 500 € for purchasing sensors
- a Flashforge Finder 3D printer



[>> Application Form](#)

[>> back to overview](#)

Upcoming Exhibitions

TERMIS-AP 2019

October 14 - 17, 2019

Brisbane, Australia, Brisbane Convention & Exhibition Centre, Booth 12

RAFT 2019

October 27 - 30, 2019

Bonita Springs, USA, Hyatt Coconut Point, Booth 36

MicroTAS 2019

October 27 - 31

Basel, Switzerland, Congress Center Basel, Booth 20

[>> back to overview](#)

Christina Schlauderer
Communications



PreSens Precision Sensing GmbH

Josef-Engert-Str. 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

[Click here to unsubscribe.](#)