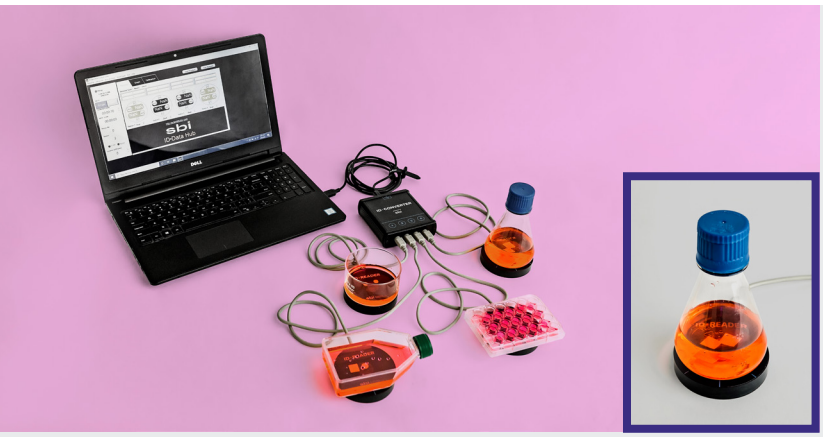
ID·DEVELOPER'S KIT

sbi SCIENTIFIC BIOPROCESSING



Includes

ID·Sensor pH
ID·Sensor DO
ID·Reader
ID·Converter
ID·Data Hub

For

Cell Culture
Tissue and Organ Culture
Tissue/Organ-On-A-Chip

Use with

When Your Culture System is Unique

Everything you need for real-time, non-invasive monitoring in one kit: optical sensors for pH and dissolved oxygen (DO), readers and software. The 10mm x 10mm sensors attach inside the culture vessel wall while a reader, positioned on the outside of the vessel, collects and sends data to the software.

When bulky sensor probes, that tend to drift in long-term cultures and lack accuracy at low dissolved oxygen levels, are not a good fit for your culture system, the ID·Developer's Kit excels.

Whether you're working with tissue culture flasks, petri dishes, tissue-on-a-chip microfluidic devices, or custom bioreactors for tissue-engineered constructs, the ID·Developer's Kit is versatile and compatible with most setups. And if the coaster-shaped reader might not fit under your vessel, make sure you inquire about our fiber-optic reader that works with challenging geometries.

How can I incorporate optical sensors in my custom cell/tissue/organ culture system?

The ID·Developer's Kit is well-suited for a wide range of custom microbial and mammalian cell culture systems.

- ID·Sensor pH and ID·Sensor DO can be as small as 4mm in diameter to fit even the smallest culture systems. Attach the sensor to the bottom inner surface of your culture vessel.
- ID·Reader is placed below a flat glass or plastic surface within 1cm from smallest sensor and can be further away for larger sensors. Sensor placement is parallel to ID·Reader.
- ID·Data Hub software loaded onto your laptop collects data through the ID·Converter.

Advantages

- Real-time monitoring of pH and dissolved oxygen
- Non-invasive and biocompatible
- Single use, disposable
- State-of-the-art fluorescence technology
- High resolution and unmatched accuracy
- Fast response time
- Quick and easy setup
- Durable reader design resistant to spills and harsh environments
- Long sensor life
- Up to 2 ID·Sensors per ID·Reader
- Up to 4 ID·Readers per ID·Converter

ID·Data Hub Features

- Automatic sensor type detection
- Real-time monitoring of up to 8 sensors
- pH and DO graphical display
- Data acquisition
- Review, save and export data
- Programmable scan intervals

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Sensor Specifications

	pH	DO
MEASUREMENT RANGE	6-8	0-100%
ACCURACY	1.5% at pH 7	0.2% at full scale
RESOLUTION	±0.01 at pH 7	±0.01% at 21% O_2
RESPONSE TIME	<15 sec	
TEMPERATURE RANGE	+5 to +50°C	
DRIFT	<0.005 per day at pH 7 and 1 min sampling interval	
CALIBRATION	Pre-calibrated; recalibration is possible	
STERILIZATION	Autoclave (one time), ethylene oxide, gamma irradiation (recalibration may be required after sterilization)	
SENSOR LIFE	45 days (continuous monitoring), several months (intermittent monitoring)	
SHELF LIFE	6 months	
SENSOR DIMENSIONS	10mm x 10mm, Custom Dimensions Available	
SCAN INTERVAL	10 seconds or greater	
OPERATING SYSTEM	Windows 7/8/10	
WARRANTY	24 months	

Pricing

ID·Developer's Kit - pH and DO includes: ■ ID·Sensor pH - Four 10mm x 10mm square sensors, non-sterile, pre-calibrated ■ ID·Sensor DO - Four 10mm x 10mm square sensors, non-sterile, pre-calibrated ■ ID·Reader ■ ID·Converter ■ ID·Data Hub	**$3,000**
Additional ID·Reader (can add up to 3 additional ID·Readers for a total of 4 per ID·Converter)	**$1,600**
Additional ID·Sensors pH - 10mm x 10mm square, pack of 10	**$250**
Additional ID·Sensors DO - 10mm x 10mm square, pack of 10	**$250**
Flow through cell	**Please inquire**

Note: All prices are in USD and FOB.

For inquiries or to place an order, please email: insights@scientificbio.com