



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 x 0.3mm 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.

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



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

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	±0.1% at 21% O ₂
RESPONSE TIME	<15 sec	
TEMPERATURE RANGE	+5 to +60°C	
DRIFT	< or = 0.005 pH per day at 1 minute scan interval	
CALIBRATION	Pre-calibrated; recalibration is possible	
STERILIZATION	Autoclave, gamma irradiation; inquire about other methods	
SENSOR LIFE	45 days (continuous monitoring), several months (intermittent monitoring)	
SHELF LIFE	12 months	
SENSOR DIMENSIONS	10mm x 10mm x 0.3mm, 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: <ul style="list-style-type: none"> ■ ID-Sensor pH - Four 10mm x 10mm x 0.3mm square sensors, non-sterile, pre-calibrated ■ ID-Sensor DO - Four 10mm x 10mm x 0.3mm 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 x 0.3mm square, pack of 10	\$250
Additional ID-Sensors DO - 10mm x 10mm x 0.3mm 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