

Optical sensors

pH and oxygen sensors



pH and oxygen optical sensors CC010

Flow-through oxygen and pH sensors are miniaturized fiber optic chemical sensors integrated in a flow through cell, to real-time on-line monitor culture parameters. The flow-through cell is connected to the transmitter by a polymer optical fiber.

The sensors can be easily connected via Luer-Lock adapters to external tubings and can therefore be integrated into perfusion systems, to allow easy control of process parameters in bioreactors.

TECHNICAL DATA - pH SENSOR

Measuring range	5.5 - 8.5 pH
Response time	< 120 sec.
Resolution at pH = 7	± 0.01 pH
Accuracy at pH = 7	± 0.05 sensor spot calibration ± 0.10 sensor batch calibration
Drift at pH = 7	< 0.005 pH per day
Temperature range	from 5 °C to 50 °C

TECHNICAL DATA - O₂ SENSOR

Measuring range	0-100% O ₂
Limit of detection	0.03%
Resolution	± 0.01% O ₂ at 0.21% O ₂ ± 0.1% O ₂ at 20.9% O ₂
Accuracy	± 0.4% O ₂ at 20.9% O ₂ ± 0.05% O ₂ at 0.2% O ₂
Response time	< 6 sec.
Temperature range	from 5 °C to 50 °C

ORDERING DETAILS

Product code CC010

Standard options: CC010-PH (pH sensor)

 CC010-02 (oxygen sensor)

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