Petri dish pH / CO_2 sensor

Measure CO_2 / pH in bench top incubators, big box incubators and environmental chambers with our Petri dish pH / CO_2 sensor which includes a detector shaped into a standard 35mm Petri dish and an ultra thin ribbon cable.

The new sensor is available as a stand-alone unit, with a display option which can be used to help validate CO_2 and provide virtual pH in a variety of laboratory equipment. It also has the ability to be used for continuous measurement as part of a monitoring system.

The system uses the established relationship between CO_2 and pH to produce reproducible indications of pH culture conditions.

The Petri dish sensor can also be used as part of a new or existing monitoring and alarm system.

Providing standard outputs and a small footprint makes for uncomplicated integration.

The sensor size (equivalent to a 35mm petri dish) combined with an ultra-thin ribbon cable makes installation into any device straightforward.

- **Easy installation**
  Benchtop incubators, big-box incubators and environmental chambers
- **Flexibility**
  Use as a static monitoring sensor or a validation tool
- **Straightforward operation**
  With only an annual calibration required
- **Reliable results**
  With no pH drift due to sensor saturation

Want to find out more about monitoring? ask@planer.com

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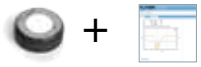
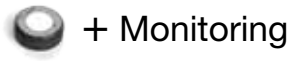
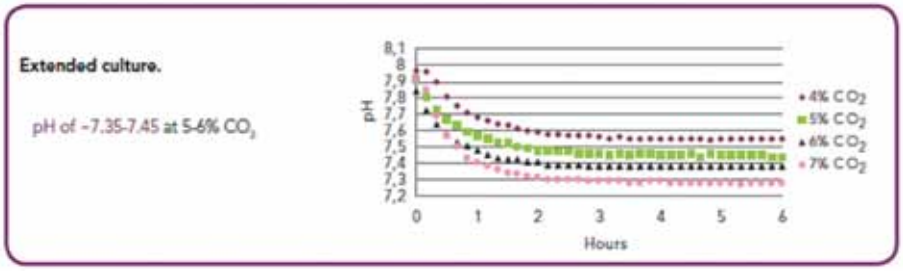
Option 1		Use as stand-alone alarm option for CO_2 and pH
Option 2		Download our free app to enable portable CO_2 and pH monitoring and validation
Option 3		Use as a sensor option for a new or existing monitoring system

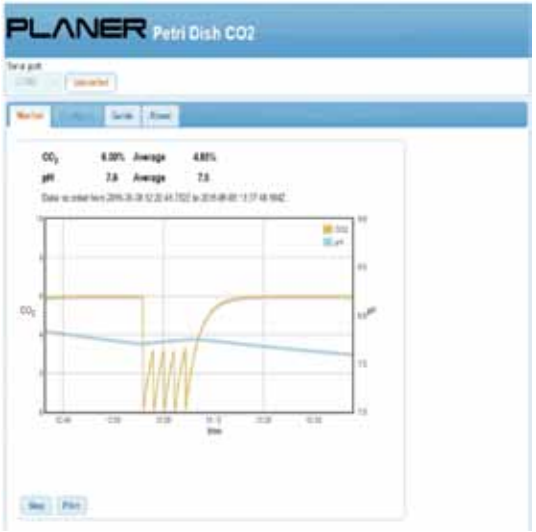
Operating Temperature	10°C to 42°C
Storage Temperature	-40°C to +80°C
Sensor Type	Infrared Sensor
Power Supply	3.6 to 5 V
Accuracy	±50 ppm, ± 3% of Reading
Power Consumption	<33 mW
Size	Equivalent to 35mm NUNC-150255 IVF Petri dish (35 mm x 10 mm)
Measurement Range	0-20% CO_2 , 0-14 virtual pH
Life Span	Five years
Output	4-20 mA
Alarm	Audio/Visual alarm on control
Calibration Frequency	Annual

Computed pH

The relationship between CO_2, bicarbonate concentration in buffered media and atmospheric pressure, allows a pH value to be computed without the expense or inconvenience of traditional pH measuring devices.



The relationship between pH and CO_2 concentration is well characterised for all leading culture media. Here is the characterisation of the Origio blastocyst media.



Using the relationship between CO_2 and pH, the Petri dish pH / CO_2 sensor can determine the effect of environmental CO_2 change on the pH in culture media.

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