

# Continuous Oxygen Monitoring of Ventilators and Incubators

- No fuel cells to replace
- No moving parts
- No consumables
- Robust, accurate and precise



- Measures oxygen %; Relative Humidity %; temperature °C and indicates flow
- High and low oxygen % alarms; low battery alarm; no flow alarm
- Factory calibrated with simple re-calibration for pure oxygen
- Mains supply and rechargeable battery with >15 hours off mains usage and rapid simultaneous recharge
- Back lit, simple and easy to use

The PRO<sub>2</sub> Check Plus is an oxygen enrichment monitor. Its sole purpose is to monitor oxygen rich air, typically delivered for respiration by ventilator devices. It is based on patented technology. It has **no fuel cell**, and therefore **no consumable parts**. It is equipped with presettable high and low level concentration-alarms and is not adversely affected by humidity. The PRO<sub>2</sub> Check Plus is powered by rechargeable batteries and is supplied with mains charger/power supply. A sample-flow sensor enables the alarming of loss of sample.



## SPECIFICATION

Product Code 191

### CLASSIFICATION

Class II medical device

### SAFETY

Non sterile device  
No patient applied part  
Battery powered / safety extra low voltage supply

### PHYSICAL & ENVIRONMENTAL

Dimensions: W 9.2cm, H 14.6cm, D 4.5cm  
Weight: 300g  
Sample Connector: 'Luer-lock' female  
Operating  
Temperature 0°C to 40°C  
Barometric pressure 800 to 1100 mB  
Humidity 0 to 95 % non condensing

### STORAGE

Temperature -15°C to 50°C

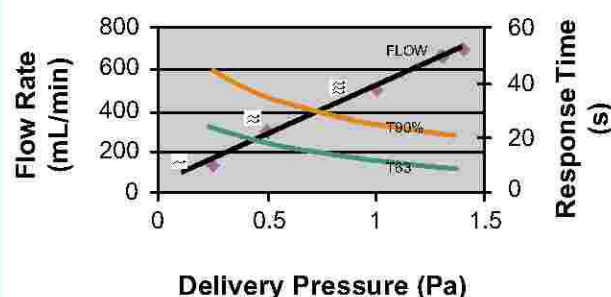
### MEASUREMENT

Range: 20-100% O<sub>2</sub> concentration in mixture \*  
Response time: 10s @ sample flow rate 3 (see graph opposite)  
Accuracy: ±2%.  
Sample flow rate range: 0.25 to 2 L/min †  
Sample pressure range: 1 to 10 Pa relative  
Alarm range min: 18%

\* This must be air, enriched with oxygen, by addition (blender) or removed of nitrogen (concentrator.)

† Sample delivery pressure must not become negative at any time.

### Sample Flow Rate VS Delivery Pressure



Graph showing the relationship of flow rate to delivery pressure, and the subsequent response time of the monitor to the flow rate. The flow symbols are approximately representative of the rates at which they are shown.

### ELECTRICAL

Battery: 2 x Lithium Ion Polymer  
Charger: Input: local mains (see label)  
Output: 9v @ 500mA dc. 1.3mm Jack tip +ve

### WARRANTY

2 years