

## Oxygen In-Line Measurement

## OxyCheck2

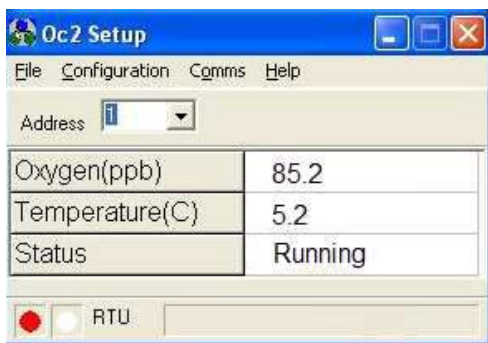
### General Description

OxyCheck2 has been designed specifically for hygienic applications where the need is for reliable and accurate measurement of Dissolved Oxygen content (DO<sub>2</sub>). The OxyCheck2 is a self-contained oxygen measurement instrument in a standard 12 mm format, the sensor shaft incorporates: high temperature resistant optical electronics, microprocessor, 4 to 20mA analogue output, RS485 serial communications with Modbus RTU protocol. The device is configured and calibrated using the Oc2Setup program via the serial bus.

### Principle of Operation

The OxyCheck2 monitors the phase shift between the light emitted by a blue LED and the reflected red light from the luminophore. The phase shift is inversely proportional to the oxygen concentration in the fluid. The inbuilt microprocessor uses the phase shift, temperature and other parameters to calculate the oxygen concentration for example in %-sat or ppb.

The analogue output scaling, measurement ranges and calibration is done via the RS485 serial port using, either Oc2Setup program or the Canongate control unit (when connected via serial coms).



### Features:

- Reliable down to ppb levels
- No fragile membrane
- Rapid start-up without polarization
- Very low drift, fast response time
- Flow and CO<sub>2</sub> independent
- Electrolyte free
- Simple sensor cap replacement
- Easy calibration
- Suitable for steam CIP
- Stainless steel PG13.5 fitting
- Integrated transmitter
- Self-diagnostic information
- 4..20mA or Modbus interface



### Process Connections

The OxyCheck2 can be supplied with an adaptor module that will convert the standard PG135 instrument to the required process connection.

### Typical fittings:

- Varivent
- Triclamp
- DN25

### Maintenance

The OxyCheck2 requires minimum maintenance and unlike many other oxygen monitors on the market, it does not have a fragile membrane or contain electrolyte. The robust sensor cap will give more than 6 months of operation in many applications and is easily replaced. OxyCheck2 can be used immediately after power up as there is no polarization required which is typically needed with polarographic O<sub>2</sub> sensors.