

# Anaerobic Conditions Monitoring System

Our advanced Anaerobic Conditions Monitoring System - ACMS - provides real time data on key oxygen threshold levels. Depending on existing oxygen levels in the workstation the ACMS system will clearly display green, yellow or red indications on the LCD screen. The thresholds used have been selected on the basis of knowledge of bacterial oxygen tolerance, combined with performance data collected from the Whitley A35 workstation during normal use. The ACMS system is complete with O<sub>2</sub> sensor and a special software package. The O<sub>2</sub> sensor is located inside the workstation for accurate real time oxygen readings of the internal atmosphere. The sensor is easily and quickly calibrated via the LCD touch screen. The ACMS is available on our Whitley A35 and A45 workstations.



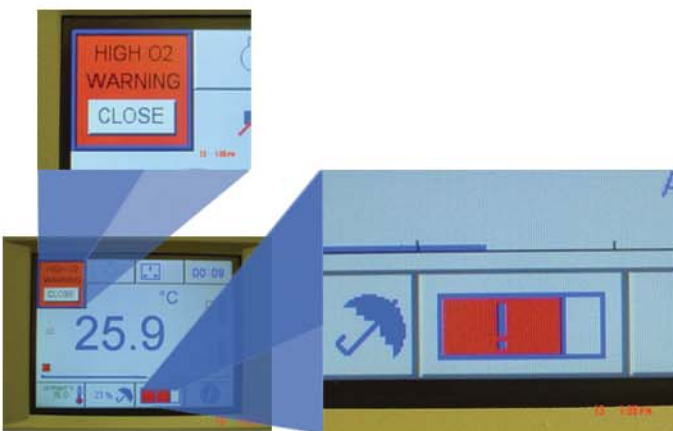
ACMS is operated via the touch screen interface and provides three levels of oxygen concentration indicators:



**GREEN** - Measured oxygen concentration is less than 0.1% v/v. It is important to note that in normal use, when good practices are followed by the operator, oxygen concentration will be substantially below 0.01% v/v (100 parts per million).



**YELLOW** - Measured oxygen concentration is greater than 0.1% v/v but less than 0.5% v/v. A correctly functioning workstation should return to the green indication within approximately 15 - 30 minutes.



**RED** - Measured oxygen concentration is greater than 0.5% v/v. A correctly functioning workstation should not display this indication for longer than 30 minutes. A prolonged red indication could mean a fault with the workstation's atmospheric control system (gas supply or functioning of anaerobic catalyst) and might affect growth of the most oxygen-sensitive bacterial species.



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