

TECHNICAL NOTE

HA Workstation Oxygen Profiling

Introduction

There is a requirement by some researchers in the cell tissue culture field to subject cells to different levels of oxygen for set time periods during a particular experiment. Don Whitley Scientific Limited can offer the optional extra 'Oxygen Profiling' on its range of HA Workstations to cater for this need.

Summary

The Oxygen Profiling option is accessed through Level 3 on the touch screen display and allows the user to pre-select up to a maximum of four oxygen levels with associated dwell periods. A cycle start delay period can also be programmed if required and there is a mandatory final oxygen set point that needs to be specified.

Each dwell period is set in 15-minute increments from zero to a maximum of 2880 minutes (48 hours).

Period 1 must always be selected. If fewer than four periods are required for any particular experiment the latter periods can be omitted by setting the time period to zero.

The system must be in feedback mode before oxygen profiling can be started.

The combined oxygen/CO2 level must remain below 20%.

Oxygen Profiling can be specified when the workstation is ordered or it can be retrofitted at a later date by a Don Whitley Scientific Limited engineer or our Authorised Distributor Overseas.



v. Define your environment

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Cycle Start Delay Period

A keypad will appear when this symbol is touched, permitting a Cycle Start Delay period to be entered in increments of 15 minutes. If no delay is required this value must be set to 0. When this period is completed the square turns red.

Oxygen Setpoint 1,2,3 and 4

A keypad will appear when any of these symbols are touched, permitting oxygen setpoint values to be entered.

A value must be entered for Setpoint 1.

Dwell Period 1,2,3 and 4

A keypad will appear when any of these symbols are touched, permitting a dwell period to be entered in increments of 15 mins.

A value must be entered for Dwell Period 1.

If fewer than four cycles are required, any remaining periods must be set to 0. When a particular dwell period is completed the relevant square turns red.

Feedback System

This area of the display confirms the status of the feedback system. To alter the system status, touch the symbol for 2 seconds.

The symbol is animated when the system is switched on and static when the system is switched off.

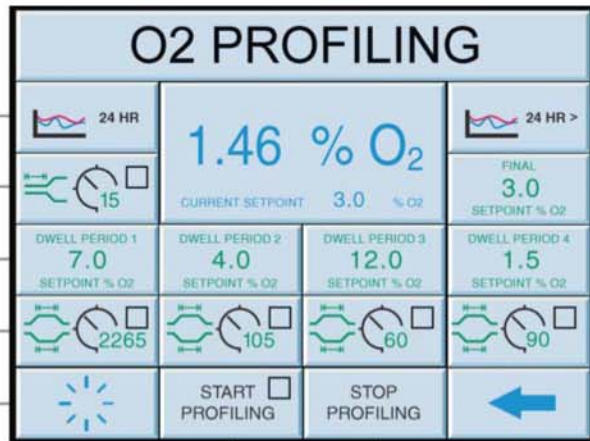
The instrument must be in feedback mode before Oxygen Profiling can be started.

One Day/One Month Oxygen Data

These symbols display graphs showing either up to 24 hours or up to 31 days of historical oxygen level data.

Final Oxygen Setpoint

A keypad will appear when this symbol is touched. Entering a Final Oxygen Setpoint value is mandatory.



Start/Stop Profiling

Touching the relevant symbol for 2 seconds starts or ends a profiling cycle. The square turns red while a profiling cycle is running.

Left Arrow

Touching this symbol returns the user to the previous screen.

