

**Document Number: SASoM/EQUIP/010.v2****Title: Oxygen Calibration of the Don Whitley H35 Hypoxystation****Version: v2****Author: Peter Mullen**

Effective from:	01/01/2018
Valid to:	31/12/2022

SOP History		
Number	Date	Reason for Change
v1	01/01/2013	Original
v2	01/01/2018	Update

1.0 Purpose –

The purpose of this SOP is to outline procedures used in oxygen calibration of the Don Whitley H35 Hypoxystation in Laboratory 248 at the St Andrews School of Medicine (SASoM).

2.0 Scope –

This SOP applies to routine use and maintenance of the Don Whitley H35 Hypoxystation within the SASoM.

3.0 Responsibilities –

It is the responsibility of all users of the Don Whitley H35 Hypoxystation within the SASoM to comply with this SOP.

4.0 Procedure – Weekly

The oxygen sensor is located in the ceiling of the workstation and is not removed for calibration. The sensor is calibrated in two different atmospheric conditions. It is flushed first with nitrogen and then with air.

Select the oxygen parameter on the touch screen. A calibrate button is visible in the display area. Touching this button takes you to the oxygen cell calibration screen.

Exit feedback mode by touching the feedback system symbol for 2 seconds. The 'sundial' icon will then no longer appear to rotate but rather remain static.

Close the calibration device / sensor located in chamber ceiling, by turning it clockwise.



Touch and hold the 'calibrate in nitrogen' button for 2 seconds. Allow calibration to take place - wait for the small red square to become 'clear'.

Touch the 'calibrate in air' button for 2 seconds. Allow calibration to take place - wait for the small red square to become 'clear'.

Once complete, open the calibration device by turning (unscrewing) anti-clockwise.

Enter the oxygen set point (access code is on the instrument) – this is routinely set at 0.5% unless by prior arrangement.

Reinstate the feedback system.

5.0 Personal protection –

This unit is a sealed and contained work station; therefore no protective clothing is necessary. Any cuts or puncture wounds should be covered.

6.0 Maintenance –

O₂ sensor must be calibrated weekly.

7.0 Training –

All users have to be trained before using the Instrument by a designated person.

8.0 Related documents –

- 8.1 Equipment manual
- 8.2 Equipment Maintenance Log
- 8.3 Equipment Maintenance Information sheet
- 8.4 Risk assessments – RA/GEN/022
- 8.5 SOP - SOP SASoM/EQUIP/009
Use and Maintenance of the Don Whitley Scientific H35 Hypoxystation
- 8.6 SOP - SASoM/EQUIP/006
Use and Transport of Gas Cylinders for the Don Whitley H35 Hypoxystation



9.0 Approval and sign off –

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