

# SCS6750 LAB SERIES ANALYSERS

Room 22						Pod 2
Multi Step Record						
Time	O <sub>2</sub>	CO <sub>2</sub>	R O <sub>2</sub>	R CO <sub>2</sub>	RQ	
9:15	0.578	0.475	0.512	0.532	1.04	
11:56	0.550	0.502	0.499	0.520	1.04	
14:26	0.521	0.530	0.528	0.494	0.94	
16:51	0.492	0.557	0.507	0.490	0.97	
19:21	0.465	0.585	0.482	0.494	1.02	
21:52	0.438	0.613	0.481	0.475	0.99	
0:23	0.412	0.642	0.485	0.499	1.03	
2:53	0.386	0.669	0.464	0.483	1.04	
5:24	0.360	0.697	0.465	0.498	1.07	
7:54	0.335	0.724	0.447	0.513	1.15	
10:25	0.310	0.752	0.453	0.489	1.08	
12:55	0.285	0.780	0.443	0.486	1.10	
15:26	0.260	0.806	0.439	0.447	1.02	
17:57	0.237	0.832	0.425	0.511	1.20	
20:27	0.213	0.859	0.413	0.522	1.26	
22:58	0.192	0.888	0.395	0.534	1.35	

Start: 8:14 16/3/2018 Time to next RQ: 28 Days

RQ Status: Multi RQ Not Activated

Pod Run\_time: 63 Hrs RQ Activate Go

Labpod mini Controller Read-Out, Pre-MCP Treatment



Lab Controller shown connected to a LabPod mini

Upgrade your lab CA system to the latest technology: Intelligent Controlled Atmosphere with the 6750 Lab Series Analyser by SCS, Ltd.

Our proven 6750 Lab Series analysers place the sensors inside any cabinets or other research chambers, regardless of size or age, all without the need for a sampling system. This offers not only real-time, high-accuracy O<sub>2</sub> & CO<sub>2</sub> readings to the thousandth (0.000%), but also allows for respiration studies. By pausing the atmosphere control, the change in O<sub>2</sub> and CO<sub>2</sub> caused by the product respiration is measured and used to calculate and display the respiration rate. Never before has it been so easy!

The renowned 6000 control module has outputs that work with your existing control solenoids for even greater ease of integration. Best of all, the system can work with anywhere from 1 to 32 chambers, allowing for easy expansion or incremental upgrade as required. The measured data is regularly collected and can be displayed on a program that runs on the PC and can be exported to Excel or other common software. PDFs are created in a snap.

While the analysers and controller can be a stand-alone system, it can also be an addition to any existing 6000 CA control system running a conventional single analyser and pumped sampling system. Further options include connecting to existing control valves, or we can provide new individual cabinet control valves and flowmeters.

Give your aging laboratory a new lease on life with this simple and cost-effective system!

## FEATURES

- ▣ Simple Upgrade for Existing Equipment
- ▣ Software Control Integrates with Existing Solenoids
- ▣ More Precise Control of CA Conditions
- ▣ Measures RQ & Respiration
- ▣ High-Resolution Gas Analysers Display in Real-Time
- ▣ Automatic Operation
- ▣ Full Data Recording



Analyser & Interface Breakout Boxes for Localized Sampling

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# SCS6750 LAB SERIES ANALYSERS

## FEATURES & SPECIFICATIONS

### MEASUREMENT & CONTROL RANGE

Oxygen: 0-25% or 0-2.5% Auto range Resolution: low range +/- 0.002% O<sub>2</sub> Electrochemical 4-year long life sensor  
Carbon Dioxide: Auto range. 0>5.000 %, Resolution 0.005%. 5.01>20.00 %, Resolution 0.02%

### CONTROL INPUTS

Control Gases required: Nitrogen with an oxygen content lower than minimum required CA Oxygen.  
Fresh Filtered Air. CO<sub>2</sub> if required. Gas supply inlet pressure 1 to 3 Bar (15 to 50 psi)

Automatic atmosphere control with optional SCS6730 Gas Inlet Controller.

Control Setpoints for Oxygen and CO<sub>2</sub> adjustable to a 0.01% resolution. Gas control differentials 0.05%, CO<sub>2</sub> add differential 0.2%.

Air added when Oxygen is measured low: Air flow adjustable 0.5 to 5 L/min

Nitrogen added when Oxygen is measured high or when CO<sub>2</sub> is high. Adjustable flow 1 to 10 L/min

CO<sub>2</sub> (if connected) added when CO<sub>2</sub> is low. Adjustable flow 0.1 to 1. L/min.

Additional flow rate adjustable from controller from 100% to 1% of maximum flow over a 5 minute period.

Optional CO<sub>2</sub> scrubber available for CO<sub>2</sub> control if Nitrogen flush CO<sub>2</sub> removal is not acceptable.

### RESPIRATION & RQ MEASUREMENT

Automatic frequency of measurement, adjustable from 10 to 999 hours

### OPERATION OF INTERNAL FAN - OPTIONAL

ON when control gases being added. With no gas addition, adjustable over range 1 to 999 seconds every 1000 seconds.

### TEMPERATURE MEASUREMENT - OPTIONAL

Probe with a typical accuracy of 0.1°C available for measuring and recording the fruit temperature

### ANALYSER CALIBRATION

Zero stability typically better than 0.05% over 12 months

Automatic barometric pressure compensation for span calibration

Remote calibration possible from operating panel.

Sampling port available for atmosphere sampling with a portable standard analyser and for Ethylene and volatile measurement

### CENTRAL OPERATION PANEL

5.7inch touch screen display. Capacity for up to 32 LabPod connections. 24v power supply for the system included in Panel.

Additional power supply needed for greater than 16 Lab Pods. The controller has a standard Ethernet connection with a dedicated IP address. Remote client and PC software provided for PC operation.

Continuous readout of gas and temperature and operational status. Access to all control settings. Remote analyser calibration protected with a passcode. Settings for empty volume and product weight for respiration rate calculations

### DATA COLLECTION

O<sub>2</sub>, CO<sub>2</sub> and temperature recorded every hour together with most recent RQ and respiration results. Results stored on CF card in PLC and on hard disk of connected PC. Can be displayed on PC in Graphical and tabular formats and exported in various formats including Excel, Word and pdf.

### CONTROL OUTPUTS - OPTIONAL

O<sub>2</sub>, CO<sub>2</sub>, N<sub>2</sub> Flush, Vent, Scrub, and CO<sub>2</sub> Add



*Analyser Shown in Existing Customer Cabinet*



*Controller Interface & Optional SCS6730 Gas Inlet Controller*

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