



Installing a Solarsens – Apollo 2 (800)

WARNING: Any maintenance work undertaken on a James Heal instrument must be done so by a trained and competent person. Where electrical work is detailed, this should only be completed by a qualified engineer. James Heal is not responsible for damage or injury arising from work carried out by any person not qualified to do so. If in doubt, please contact James Heal or your local James Heal Agent.

1. Ensure the Apollo is fitted with the lamp and all glassware.

The round blue air filter on the lamp cooling blower under the chamber should be fitted and also be clean.

If a flexible pipe is fitted to the lamp exhaust this should be position in the same way it would be during normal use of the Apollo.

2. Press and hold the **PRINT** key while switching on the power to the Apollo.



The Apollo should beep and show a message saying that **Test utilities are unlocked** for a short time, and then show the **MAIN MENU** screen.

3. Use the **Up/Down** keys to select **OTPION 7 TEST UTILITIES**, then press the **ENTER** key.







4. Use the Up/Down keys to select OPTION 1 CALIBRATION

Then press the **ENTER** key to enter the calibration menu.

OPTION 1	CALIBRATION
OPTION 2	XE LAMP & FILTERS
OPTION 3	IRRADIANCE SYSTEM
OPTION 4	HEATING SYSTEM
OPTION 5	WATER SYSTEM
OPTION 6	USER INTERFACE
OPTION 7	INITIALISE EVERYTHING
OPTION 8	INITIALISE FOR DESPATCH
OPTION 9	LAST SERVICED//

5. You should now be in the calibration menu.

- (
1	CALIBRATION		
1	Apollo	SN 700//	
-	SolarSens	SN 0000 (RxSN 0000)	
1	Blower Speed	170 - 100%	
-	Irradiance 340nm	4095 - 0.35W/m2	
-	Irradiance 420nm	4095 = 1.25W/m2	
-	Irradiance 300-400nm	4095 = 42W/m2	
+	BS Temperature	1600 - 20°C	
1	CH Temperature	255 - 20°C	
	CH Humidity	255 = 65.0%RH	
	XE Lamp Amps	255 - 20.0A	
. ر			

Use the Up/Down keys to select SolarSens then press

the **ENTER** key to start editing the serial number.

Use the **Up/Down** keys to change this number to the serial number of your Solarsens.

Press **ENTER** again to finish editing and accept the new number.

Use the **Up/Down** keys to select **Irradiance 340 nm** then press the **ENTER** key to start editing the calibration number. Use the **Up/Down** keys to change this number to the new calibration

number for your Solarsens.

Press **ENTER** again to finish editing and accept the new number.

Use the **Up/Down** keys to select **Irradiance 420 nm** then press the **ENTER** key to start editing the calibration number. Use the **Up/Down** keys to change this number to the new calibration number for your Solarsens.

Press **ENTER** again to finish editing and accept the new number.





Use the **Up/Down** keys to select **Irradiance 300-400 nm** then press the **ENTER** key to start editing the calibration number. Use the **Up/Down** keys to change this number to the new calibration number for your Solarsens. Press **ENTER** again to finish editing and accept the new number.

Use the **Up/Down** keys to select **BS Temperature offset** then press the **ENTER** key to start editing the calibration number. Use the **Up/Down** keys to change this number to the new calibration number for your Solarsens. Press **ENTER** again to finish editing and accept the new number.

6. Press the **EXIT** key to leave the calibration menu, then press **EXIT** again to exit the Test Utilities menu.