

[B] MANUAL DIGITAL CONTROL

For this mode of operation switch Manual/ Dawn to Dusk [Sw1] is set to DAWN to DUSK and switch Maximum/Off/Auto [sw2] to AUTO position .The second Automatic [0] / Manual [1] digital parameter must be set to [1] . The desired illumination intensity is obtained by adjustment of the first parameter LIGHT INTENSITY% . In this mode the intensity of the illumination remains constant at the set value when the lights are switched on.

[C] ALTERNATIVE MANUAL CONTROL

For this mode of operation switch Sw1 is set to MANUAL and Sw2 remains in AUTO position . The desired illumination is obtained by adjustment of the variable resistor Vr1 marked ILLUMINATION. This method provides simple adjustment of illumination intensity when the precise level is not critical.

MAXIMUM

Switch Sw1 is set to MANUAL and Sw2 to MAXIMUM. In this mode the lights produce maximum intensity.

SETTING DIGITAL PARAMETERS

In order to make any adjustments to the set light intensity % , Automatic =0 Manual = 1, Minimum intensity % , Maximum intensity % , Ramp up and Down times, The H.F. Microlight controller requires a Security Password Number to be entered .

Your SECURITY PASSWORD NUMBER for the H.F. Microlight controller is 222 and should remain confidential to prevent unauthorized adjustments

ENTERING SECURITY PASSWORD NUMBERS

1 Select the Security Password Parameter by operating the lower touch pads marked SELECT until the appropriate LED indicator is illuminated .

2 Using the upper ADJUST touch pads, set the Security Password to 222 Having entered the correct password all the other parameters can now be modified.

ENTERING SET MINIMUM and MAXIMUM INTENSITY %

3 Select the Minimum Intensity % Parameter using the SELECT lower touch pads . Note that Minimum Intensity % LED is now illuminated.

4 Using the upper ADJUST touch pads , set the Minimum Intensity % Parameter value required. The Maximum % Parameter is set using the same method but selecting the Maximum Intensity % Parameter again using the SELECT lower touch pads .

ENTERING RAMP-UP and RAMP-DOWN TIMES-[maximum 60 minutes]

5 Using the SELECT touch buttons ,select the Ramp-up Time [adjacent LED illuminated] Which simulates the "Dawn" condition and set the time required by the upper ADJUST touch pads.

6 Repeat the process to set the Ramp-Down Time to simulates the "Dusk" condition

ENTERING AUTOMATIC -0 (MANUAL-1

7 Using the SELECT touch pads , select the Auto / Manual [adjacent LED illuminated which enables mode to be set by the upper ADJUST touch pads.

ENTERING LIGHT INTENSITY %

8 Using the SELECT touch pads , select the Light Intensity % Parameter [adjacent LED illuminated] Which enables, when the second Parameter Automatic[0] / Manual [1] is set to [1] for the illumination intensity to be varied by the upper ADJUST touch pads.

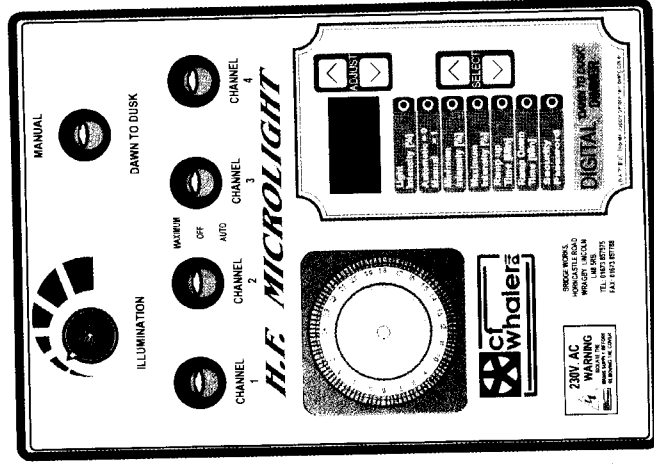


Ventilation Engineers
and
Controlled Environment
Specialists

H.F. MICROLIGHT

DIGITAL "DAWN TO DUSK DIMMER MICRO-COMPUTER CONTROLLED

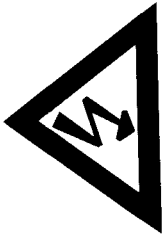
PLEASE READ IMPORTANT INFORMATION



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HEALTH AND SAFETY AT WORK



DANGER
ELECTRIC SHOCK RISK

ELECTRIC DEVICES CAN CONSTITUTE A SAFETY HAZARD

It is the responsibility of the user to ensure that the installation and maintenance of the product are carried out in strict compliance with any relevant instructions, regulations, codes of practice or bylaws in force.

This equipment should only be installed and commissioned by appropriately qualified personnel who have read and fully understood this users manual. If in doubt contact your supplier or C.F.Whaler Ltd. for technical advice.

Every care has been taken to ensure that the contents of this instruction booklet are accurate, however no liability is accepted for any consequence of its use. The manufacturers reserve the right to revise the product specification and other technical features resulting from improvement and continual development.

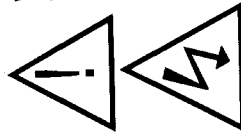
H.F. MICRO-LIGHT SPECIFICATIONS

Supply Input	230v 50hz -6% +10%	2.75 kva.
Supply Output/Channel	230v 50hz	0.9kva.
Output Current/Channel	3.75A Continuous	
Ramp Up Time	1-60 Minutes	
Ramp Down Time	1-60 Minutes	
Digital Light Output Variation	0-100%	
Channel Overload Protection	5A [Type T] Fuse	
Supply Input Protection	16A [Type T] Fuse	

WARNING

The H.F. MICROLIGHT controller and all "Whaler" high frequency fluorescent lights have electronic control circuitry.
DO NOT Use high voltage insulation test instruments.

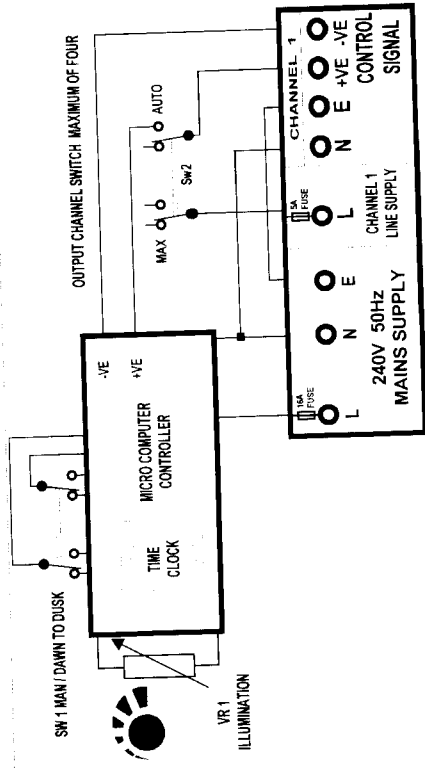
ISOLATE THE SUPPLY TO H.F. MICROLIGHT CONTROLLER AND LIGHTS BEFORE REMOVING THE COVER



DESCRIPTION

The Whaler H.F. Microlight high frequency fluorescent controller employs the latest state of the art technology to control the output illumination of each light. Each light is connected to the 230v 50hz supply and by varying an isolated low voltage control signal it is possible to provide 1-100% illumination control. Each light's internal electronic circuitry generates the high frequency supply which ensures very high efficiency and is compliant with E.C. Regulations with respect to electromagnetic compatibility

H.F. MICROLIGHT BLOCK DIAGRAM and CONNECTIONS

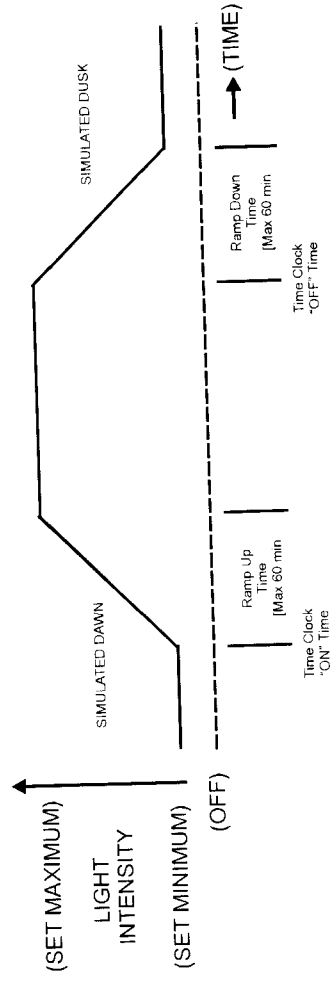


OPERATIONAL MODES

The H.F. Microlight unit may be operated in three control modes and maximum [A] Fully Automatic Digital [B] Manual Digital and [C] Alternative Manual.

[A] FULLY AUTOMATIC DIGITAL CONTROL

Switch Manual/Dawn to Dusk [Sw1] switch to Dawn to Dusk and set Maximum/Off/Auto [Sw2] switch to Auto position. Ensure the second parameter Automatic [0] / Manual [1] is set to [0] (setting parameters is shown overleaf). The front panel time clock determines the time at which the ramp up from the set minimum illumination intensity commences and after completing the simulated "dawn the lights function at the set maximum intensity. When the time clock indicates the commencement of ramp down [simulated "dusk"] the illumination intensity is slowly reduced to the minimum value.



CONTINUED OVERLEAF.....