C.F.Whaler Ltd.

For over 40 year's C.F.WhalerLtd. have specialised in the design, manufacture and installation of state of the art electrical and electronic control systems and equipment for agriculture and industry.

The company offers large comprehensive range of standard manufactured products to satisfy the majority of environmental control requirements, and a service to build to customers specific requirements.

C.F.Whaler Ltd., also offer a consultancy service, based on engineers considerable knowledge and expertise in resolving the many environmental problems associated with intensive livestock production units.

WHALER PRODUCT RANGE

- Fan Speed Controllers.
- Automatic Fan Controllers with switched Heater Interlocks.
- Electronic Sequential fan Controllers.
- PRESCON 2 Digital Air-Pressure controller.
- Lighting Control Systems.
- Total Refurbishment Programmes.
- Maintenance Contracts.

C.F.Whaler Ltd.

- **WHALER MICROLIGHT** "Dawn to Dusk" Conrols
- High and Low Temperature Alarms
- Supply failure Alarms
- Alarm Monitoring Systems
- Magnetically Held Door Control Systems
- MICRO-STAT Digital Thermosat.
- MICRO-TIMER Digital Cycle Timer.
- Transducers, Sensors and Thermostats.
- Vent Drive Motors/ linear Actuators and Power Supplies
- STICK Microcomputer Total Environment Controller

For further details of any product or service please do not hesitate to contact us:-

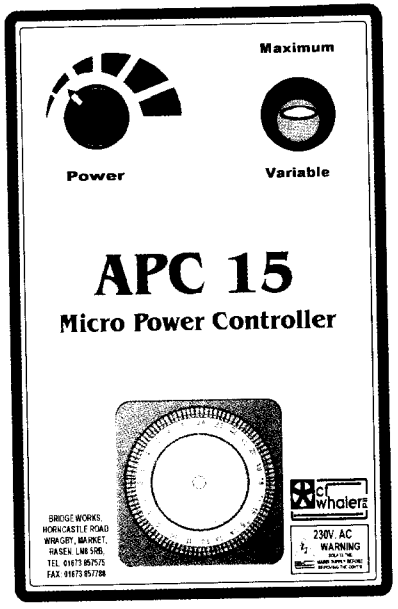
Bridge Works, Horncastle Road
Wragby, Lincoln LN8 5RB
Tel: 01673 857575
Fax: 01673 857788

cf whaler

Ventilation Engineers
and
Controlled Environment
Specialists

MICRO DIMMER APC 15

PLEASE READ IMPORTANT INFORMATION



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Wragby Market Rasen LN8 5RB
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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.

APC 15 ANALOGUE MICRO DIMMER

Supply Input	230v 50Hz. +10%-6% 2.8VA
Minimum output	Adjustable 0 -100%.
Supply Input Fuse	16 Amp (Type T) Fuse
Supply output	0 - 230v 2.8kva
Maximum output current	12A
Output control	Variable or Maximum

DESCRIPTION

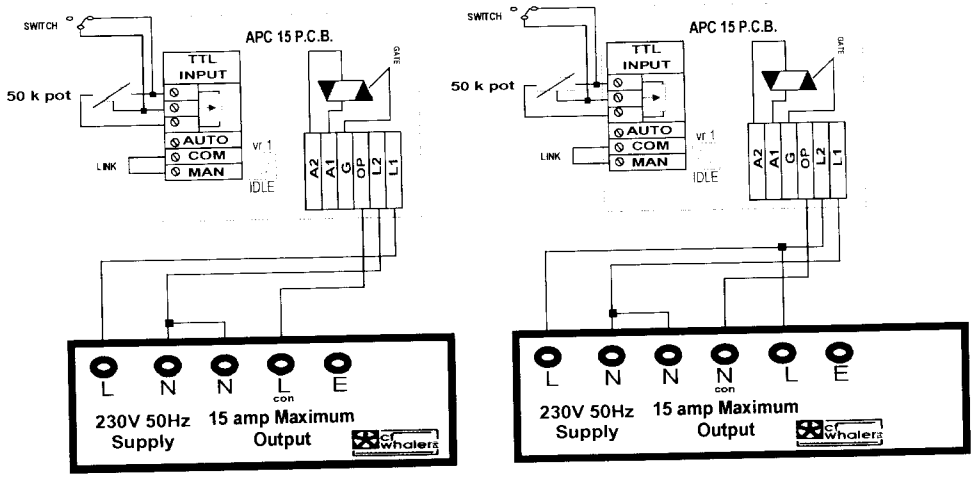
The Analogue Micro unit designed and manufactured by C.F. Whaler Ltd. is a multi task controller that provides a reliable method of increasing or decreasing the voltage via a power semiconductor. This unit can be used to control either lights (tungstens / fluorescents) or to control ventilating fans

This unit can be fitted with a timeclock so that the output can be switched on and off as required.

The actual illumination level or fan speed is simply adjusted by the potentiometer (Variable resistor) mounted on the front cover.

The control switch also mounted on the front cover is to provide maximum illumination or full speed of the fans without the need to change the position of the potentiometer.

The minimum illumination or idle speed of fans can be set by the blue pot marked(vr1 idle) on the p.c.b. Mounted inside the panel, this **must** be set by the user if being used as a fan controller to prevent damage to the fans. C.F.Whaler Ltd accept no responsibility if the minimum speed is not correctly set.



Prior notice of the type of output required is necessary to ensure the correct unit is supplied. Other output configurations are also possible.

If a timeclock is used the timeclock switches a relay which in turn open circuits the positive side of the pot to switch the unit on and off.