

## C.F. Whaler Ltd.

For over 40 years C.F. Whaler Ltd. 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" Controls

- ☐ High and Low Temperature Alarms
- ☐ Supply failure Alarms
- ☐ Alarm Monitoring Systems
- ☐ Magnetically Held Door Control Systems
- ☐ MICRO-STAT Digital Thermostat.
- ☐ 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

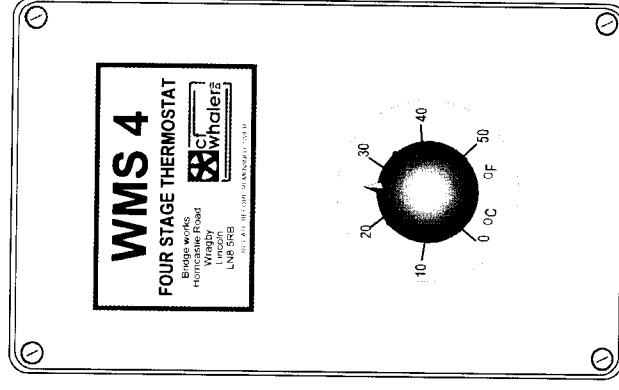


Ventilation Engineers  
and  
Controlled Environment  
Specialists

# WMS 4 THERMOSTAT

(MECHANICAL)

PLEASE READ IMPORTANT INFORMATION



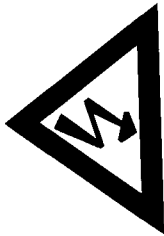
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# HEALTH AND SAFETY AT WORK



**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.

## THERMOSTAT SPECIFICATIONS

Temperature Range .....	0-40°C.
Scale Calibration( T15 WD and T15-2) .....	1°C Intervals
Scale Calibration (WMS 4) .....	2°C Intervals
Switching Differential .....	Approx 1°C
Contacts .....	Single pole Changeover
Maximum Switching Current.....	15A/ 230v a.c.

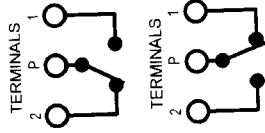
## DESCRIPTION

The WMS 4 is designed to operate in a wide range of environmental conditions. The unit is fully adjustable from 0 to 50°C on the calibrated scale provided. At the desired temperature the single pole change-over contacts operate so that a suitable load may be either switched ON or OFF. The thermostat should be mounted in a suitable position within a building so that it functions at an average location temperature. To ensure satisfactory operation at all times the thermostat should be maintained free of any dust and any other air born material.

**T 15WD and T15-2**  
The T15WD is a single stage thermostat which operates in exactly the same way as the WMS 4 and T15-2 is a two stage thermostat which can be employed as a high and low temperature stat for an alarm system etc. These two thermostats are fully adjustable from 0 to 40°C. These thermostats are housed in a different enclosure to that of the WMS 4, but all the enclosures are rated at Ip55.

### T 15WD CONNECTIONS

Thermostat Scale SET TEMPERATURE  
Less than AMBIENT TEMPERATURE

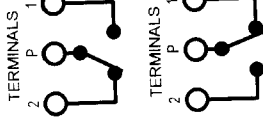


T15WD APPLICATION CONNECTIONS	
Heater Terminals	P & 1
Fan Terminals	P & 2
High Temp Alarm	P & 1
Low Temp Alarm	P & 2

Thermostat Scale SET TEMPERATURE  
Greater than AMBIENT TEMPERATURE

### T 15-2 CONNECTIONS

The T15-2 thermostat has two sets of change over contacts incorporated within one enclosure.



Thermostat Scale SET TEMPERATURE  
Less than AMBIENT TEMPERATURE

T15WD APPLICATION CONNECTIONS	
Heater Terminals	P & 1
Fan Terminals	P & 2
High/Low Temp Alarm Terminals	P & 1
P & 1 ( set 1) in series	P & 2 (set 2)

Thermostat Scale SET TEMPERATURE  
Greater than AMBIENT TEMPERATURE

### WMS 4 CONNECTIONS

The WMS 4 thermostat has four change-over contacts that operate at approximately 1°C intervals. This makes the unit capable of operating for example, one stage of heating and three stages of cooling. When thermostat scale SET TEMPERATURE is less than AMBIENT TEMPERATURE the change-over contacts are as shown in the diagram. As ambient temperature increases, first STAGE 1 contacts switch-over, followed by STAGES 2,3 and 4, if the temperature proceeds to rise. Therefore a rise in AMBIENT TEMPERATURE causes contacts 1 [common] and 2 to open and 1 [common] and 3 to close.

Rear view of WMS4 showing contact terminations

