

# Commercial Weather Watcher

# PACTROL

CONTROLS

technology factfile

The Pactrol Commercial Weather Watcher Controller has been designed specifically for controlling off-peak storage heating systems in commercial buildings, schools, public houses and clubs. The unit is based on the already successful Weather Watcher.

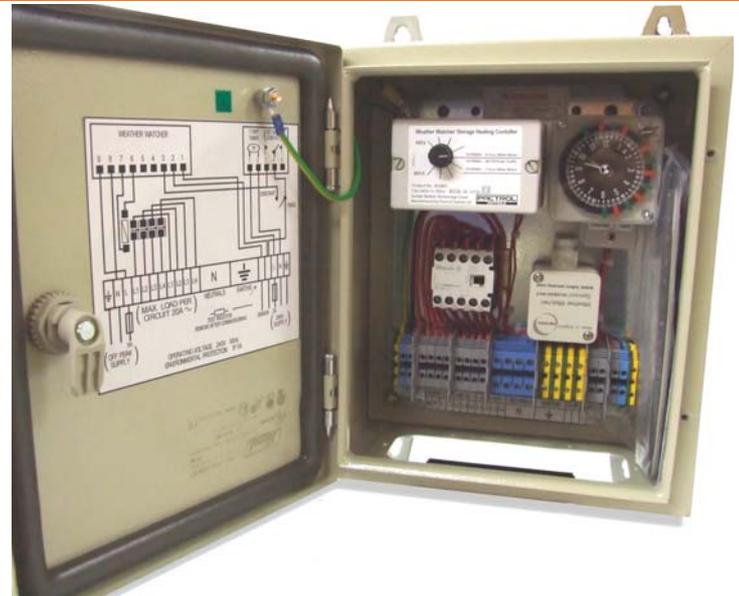
The Commercial Weather Watcher offers the facility of automatic night set back periods when the building is unoccupied (Such as weekends).

This facility is provided by the inclusions of a 7 day quartz reserve time switch.

The set back facility reduces the normal 100% charge given to the system to approximately 40%, thus increasing the overall savings that can be achieved.

## MAIN FEATURES

1. Can produce savings of up to 35%
2. Automatic set back facility reduces normal charge by 50%
3. Tamperproof lockable metal enclosure.
4. Manual "Holiday" switch to give indefinite set back facility.
5. Programmes available to suit all off-peak tariffs.
6. Easily installed and tested.
7. Suitable for any off-peak heating installation including storage heaters, electric and underfloor heating.
8. Four pole contactor output facility.



## DESCRIPTION

The Commercial Weather Watcher consists of a Weather Watcher storage heating controller, 7 day quartz reserve time switch, 4 pole contactor assembly prewired to a 24 way terminal assembly. All items are mounted on a removable chassis assembly fixed to a dustproof lockable enclosure. The enclosure incorporates external fixing plates.

The enclosure has removable cable entry plates at the top and bottom.

The outdoor sensor is housed in a small weatherproof plastic housing and is supplied complete with a cable entry gland.

The quartz reserve time switch is supplied with 9 ON and 9 OFF switch selectors.

## OPERATION

### Normal (See fig.1)

Heating is regulated for part of the off-peak hours, ranging from 100% (maximum stored heat) down to zero, the percentage depending on the control setting and the outside temperature.

### Set back

With the timer switch set for ON operation during the normal period of the tariff the control will automatically reduce the normal charge expected at 0° C by 50%.

Fig 2 indicates the charge expected at temperatures above 0° C

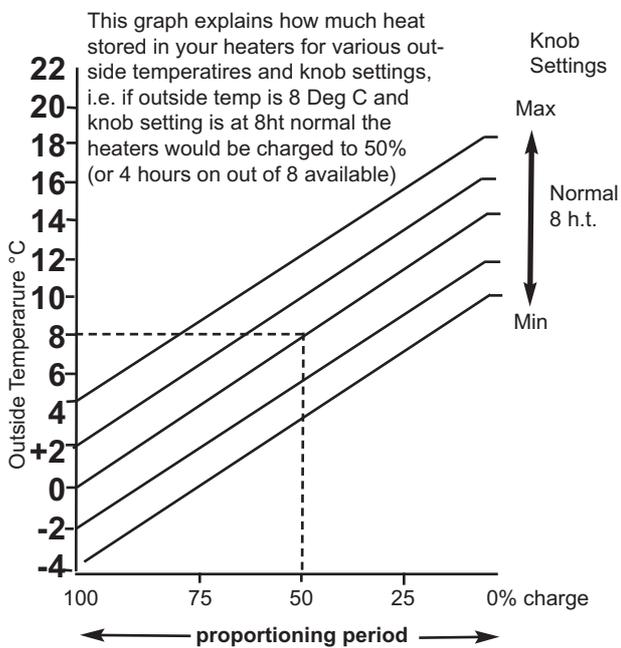


fig 1

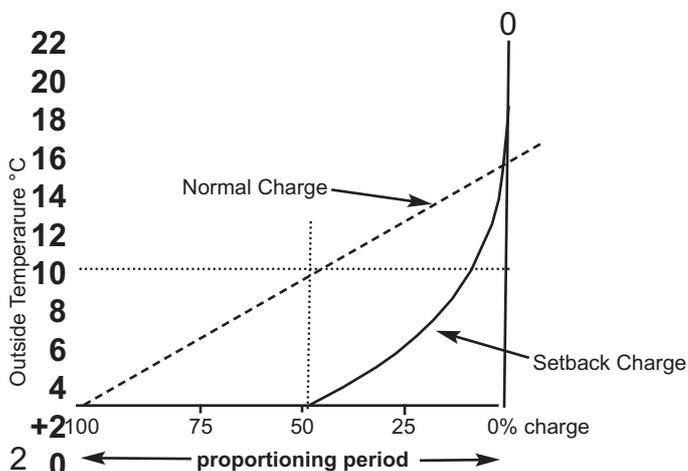


fig 2

Normal setting with set back switch ON is as follows:-

Normal 0°C setting would give approximately 50% charge

Normal 8°C setting would give approximately 10% charge

Normal 16°C setting would give no charge.

## PROGRAMMES

Two alternative programmes are available on the Commercial Weather Watcher.

Programme 1 is standard for Economy 7, White Meter and Off-Peak tariffs of up to 8 hours which do not provide a mid-day boost. The controller operates in this case by delaying the switch-on time

**White  
Rodgers**

**EMERSON**  
Climate Technologies

for the heating according to the outside temperature. Once the heating has switched on, it will normally remain on until the end of the off-peak period.

Programme 2 is designed for off-peak tariffs exceeding 8 hours and for those who include a day-time boost. In this programme, the heating is switched on for part of every hour throughout the off-peak period. The percentage of each hour for which the heating is on depends on the outside temperature at that particular time.

## INSTALLATION

The controller requires a single phase restricted-hour supply and a normal 24 hour unrestricted supply.

The control should be wired in accordance with the IEE regulations by a competent electrician according to the installation instructions and data provided with the control.

## TECHNICAL DATA

Housing	W	D	H
	250mm	135mm	300mm
	1.2mm steel painted with epoxy powder to RAL 7032.		
	Environmental protection IP54. Cable entries by gland plates and seals top and bottom.		
	Enclosure lockable and supplied with 2 keys		
<b>Voltage</b>	240±10%		
<b>Frequency</b>	50 Hz Only		
<b>Consumption (excluding load)</b>	6 VA		
<b>Internal Fuse</b>	2A		
<b>External fuse</b>	5A		
<b>Load switching</b>	4 independent circuits 20A resistive each		
<b>Ambiant temperature</b>	-10° to +40°C		
<b>Quartz set back Clock</b>	7 day setting 150 hrs battery reserve		
<b>Pactrol Part Number</b>	408500		

New models are continuously under development. For further information visit our Website [www.pactrol.com](http://www.pactrol.com) or contact the sales team at [sales@pactrol.com](mailto:sales@pactrol.com) Pactrol Controls reserve the right to change the specification of this product range without notice.

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