SmartCom³

BENSON HEATING

We 00:02
AUTO   OFF

LOCKOUT
PLUS
OK
FAN ONLY
OVERTIME
LOCKOUT
POWER
MINUS
UNDO
SETTINGS
HOLIDAY
CHECK TEMP

BENSON HEATING
SmartCom 3 - SINGLE ZONE
Tel : 01547 528 534

Energy Management Control

Free Blowing and Ducted Warm Air Units

Radiant Tubes

SmartCom³

Introduction

Environmental issues dictate that buildings need to operate as effectively and efficiently as possible. Initiatives such as the Climate Change Levy and the subsequent introduction of the Government's Energy Technology List (ECA scheme), together with upgrading Part L of the Building Regulations, have resulted in consulting engineers, contractors and end users becoming increasingly energy conscious.

Benson Heating has introduced SmartCom³, an intelligent energy management controller, in order to satisfy the growing need for higher efficiencies and to complement the development of efficient heating systems.

Simple to program and operate, SmartCom³ provides cost-effective energy management for small single heater installations through to large multi-zone applications requiring centralised control.

Features & Benefits

- Easy to program – simple multi-key entry and on-screen prompts

- Suitable for controlling heating and/or cooling

- Reduced installation time – units can be networked via screened cable

- Integral warm air temperature sensor

- Optional remote air sensor, remote black bulb sensor, duct sensor or outdoor sensor

- Alphanumeric backlit display with angled screen for easy viewing

- Remote burner lock out facility

- Easy-set overtime and holiday periods

- Hours run metering and service data logging

- Compact IP30 enclosure complete with top or bottom cable entry

- Security – optional passwords prevent unauthorised access to unit

- Dual temperature settings for sports/non-sports comfort heating
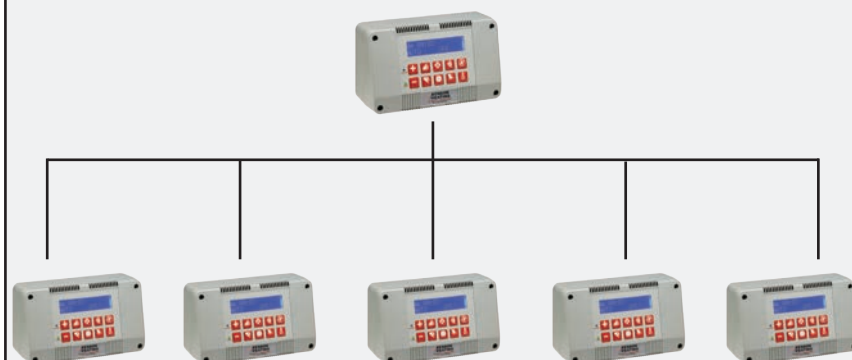
SmartCom³ Functions

Suitable for use with both standard warm air heaters and radiant tubes together with ducted installations.

Functions include:

- Self adapting optimised start

- Volt free remote on/off

- Ability to communicate with up to 15 slave units which may be centrally controlled by one master control (Smartcom³ Multi-Zone only)

- Single stage heating

- Summer ventilation

- High/low heat (two stage heating) - warm air only (Smartcom³ MZ control only)

- Three stage cooling or ventilation where applicable

- Fully modulating heating (Smartcom³ MZ control only)

- Clock update, temperature functions and program settings

- Zonal lock out indication and reset functions

- Multi-Zone or split zone (radiant applications)

Multi-Zone System (MZ Control Panel)

Zone 1 Master Control

Up to 15 additional zone controls

Remote Sensor Options

Warm Air Sensors

Remote sensors for applications where the temperature sensor must be located away from the controller. Remote sensors can also be used for temperature averaging in conjunction with the controllers integral sensor.

Warm Air Duct Sensors

The sensor may be located in the return air duct (prior to any mixing with fresh air). Alternatively for make-up air applications requiring a constant supply air temperature the duct sensor may be located in the supply duct to control high/low or modulating burners (SmartCom[3] MZ control only).

Radiant Black Bulb Sensors

Essential for efficient radiant heating systems, black bulb sensors enhance the energy saving capability by measuring the effective radiant temperature within the space being heated.

Applications

Universal applications - compatible with:

• Free blowing warm air heaters

• Single heaters

• Ducted warm air heaters

• Cabinet heaters

• Radiant heating

Modes of Operation

Auto Mode

For fully automatic control of combined heating and free cool ventilation or heating and cooling, the SmartCom³ panel will control the burner plus integral fresh air dampers or cooling coils where appropriate.

It also ensures correctly sequenced operation of heating combined with ventilation or cooling.

Off Mode

All functions are switched off.

Heat Only

For control of simple heating only units the SmartCom³ standard provides on/off burner control and the SmartCom³ MZ control provides high/low or modulating burner control.

Fan Only

Controls two stages of ventilation during clock 'on' periods. The fan only facility is temperature controlled ensuring that it only operates if the temperature rises above the defined set point. A further 2°C rise in temperature operates the second stage vent where applicable.

Frost Only

For constant frost protection at 5°C (non adjustable). When the controller is set to holiday mode it will operate as frost only.

Th 09:58
AUTO   ON

Increase a value

Decrease a value

Accept a newly entered value

Press once to cancel overtime, vent off and holiday modes or a newly entered value not yet OK'd. When in programming press once to revert to normal operation

Initialise programming sequence

Initiate a timed period of forced ventilation

Extend a period of heating

Set the control to holiday mode

Toggle the display between set and actual room temperatures

Clear a flame failure lockout

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