

HC Hard Case Electronic Control Devices

Energy Saving Tamperproof Electronic Control Devices

- Energy saving control devices because only authorised personnel can adjust temperature settings
- Vandal resistant design suitable for public areas
- Highly accurate electronic temperature control ensures lowest possible heating costs
- Top quality products backed by 5 year warranty



Typical Applications

- Controlling BN Thermic heating systems such as OUH Industrial Unit Heaters and ESP Radiant Cassettes
- Accurate temperature control in shops, warehouses, schools, sports halls etc
- Frequently used as an integral component in a programmable heating system

Features Common to all Models

- Tamperproof design requires a special tool (HC-D) to adjust temperature settings
- Electronic control accurate to within +/- 0.5°C
- Super robust vandal resistant die-cast aluminium enclosure
- Integral black sensor ideally suited for control of radiant heating systems
- Suitable for use with a remote HC-S2 Sensor

HC-T2

Standard Electronic Control Device

Application

Comfort heating control or frost protection

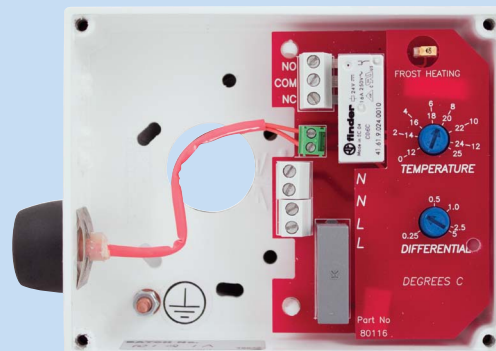
Features specific to HC-T2

Adjustable range (comfort):	12 to 25°C
Adjustable range (frost protection):	0 to 12°C
Selection between ranges by means of switch located under tamperproof lid	
Output switch rating:	16A
Output switch:	Changeover
Adjustable differential:	0.25 to 5°C
Power Supply:	230V
Dimensions:	120 x 95 x 56.5
Weight:	0.33kg



HC-T2 External View

Note Tamperproof screws preventing unauthorised personnel from adjusting temperature settings



HC-T2 Internal View

Note switch allowing either 'comfort' or 'frost protection' to be selected

HC-ST2

Electronic Control Device with Set-Back

Application

Provides frost protection as a default with a comfort setting for programmable periods

Operation

Operation Mode 1 – Using Integral Run-Down Timer

Ideal for irregularly used facilities

The HC-ST2 has two settings: high (comfort) and low (set-back). The default setting is low (set-back). The HC-ST2 incorporates a simple push button which changes the set-point from low (set-back) to high (comfort) for a pre-programmed period of time (½, 1, 2 or 4 hours). Once this period of time has elapsed the device will automatically revert to its low (set-back) setting.

This method of control is ideal for irregularly used facilities such as community halls where the set-back setting will provide frost protection while the hall is unoccupied.

Operation Mode 2 – Using Remote Programmable Timer

Ideal for facilities with a regular pattern of use (with a provision for occasional comfort heating outside normal hours)

The HC-ST2 has two settings: high (comfort) and low (set-back) and requires a remote signal to switch between one and the other. Typically this signal is provided by a remote mounted 24 hour/7 day programmable timer (TIM-D1) that will ensure that the heating system operates at its low (set-back) setting, providing frost protection while a building is unoccupied (typically at night and at weekends). The programmable timer has a built-in run-down clock that is triggered by a remote mounted 'boost button' (HC-B1). This feature will provide a temporary temperature boost for a pre-determined length of time during a period when the system would normally be in set-back mode. The boost command can be cancelled by depressing the 'boost button' for 3 seconds.

This system is ideal for premises that have a regular pattern of use but may occasionally be used outside normal hours. See diagram on page 56.

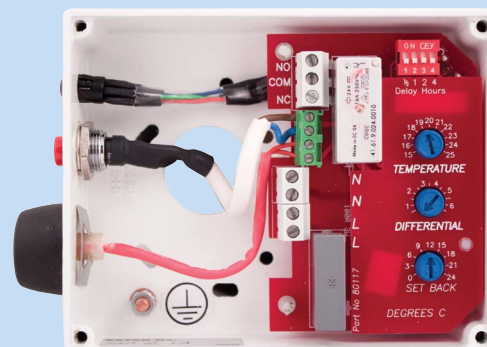
See page 58 for details of timer and boost button.

Features specific to HC-ST2

Adjustable range (comfort):	12 to 25°C
Adjustable set-back:	Up to 20°C below high temperature setting
Led indicator:	blue (set-back) or red (comfort)
Output switch rating:	16A
Output switch:	Changeover
Adjustable differential:	0.25 to 5°C
Power Supply:	230V
Dimensions:	120 x 95 x 56.5
Weight:	0.33kg



HC-ST2 External View
Note push button used to activate run-down timer



HC-ST2 Internal View
Note adjustment knobs for both comfort and set-back settings

HC-S2 Remote Sensor

Optional remote mounted sensor for use with HC-T2 and HC-ST2 tamperproof electronic control devices. When the provided gasket is fitted, the unit will conform to IP55 (protected against water sprayed from all directions).

Dimensions: 74 x 51 x 28



HC-S2
IP55 rated optional sensor for remote mounting

HC-D Special Tool for Removing Tamperproof Screws

The key to the Hard Case energy saving potential is the HC-D. Without this device it is impossible to adjust temperature settings. This ensures that changes are only made by authorised personnel and prevents casual or willful adjustments being made.

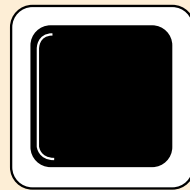


HC-D Special Tool for Tamperproof Screws
preventing unauthorised personnel from adjusting settings

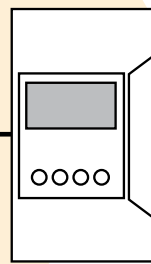
HC Hard Case Electronic Control Devices

Model	Description
HC-T2	Standard Electronic Control Device
HC-ST2	Set-Back Electronic Control Device with Run-Down Timer
HC-S2	Standard Remote Sensor
HC-D	Special Tool for Removing Tamperproof Screws

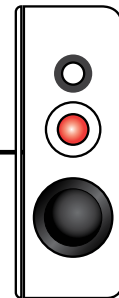
HC-ST2
Used with a programmable timer



TIM-B1
Push Button
providing temporary boost to comfort



TIM-D1
7-day Programmable timer. Changes control from set-back to comfort



HC-ST2
Tamperproof thermostat with two settings: HIGH (comfort) and LOW (set-back)

