The **Eltek HC16 receiver / logger** allows control of a heating system.

Temperature & RH
UV, visible light, RH & T
up to 125 total

16 outputs to heater control panel for control of independent zones.

Full environmental datalogging using Darca Heritage software

Wireless transmitters gather data

HC16 Receiver / logger / controller

H16 Receiver / logger / controller

Specify the ideal environment for each room, depending on its function, on the time of day and the day of the week.

HC16 performs both data logging and heater control

Adjust the temperature or the relative humidity in a particular room without reference to any third party

Three basic modes of operation:
1) Temperature control only
2) Conservation mode – using heating to control humidity, and where humidity is part of the control loop
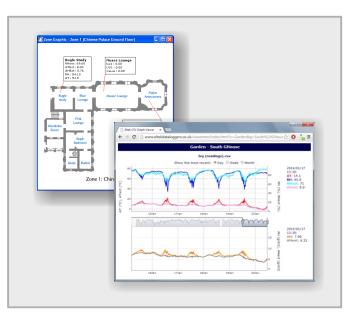3) Comfort mode – temperature control but respecting conservation requirements and visitor comfort levels

These modes all come with individual night and day and weekly programmes.

SMS Text and email alarm messages to key personnel if any predefined parameters are exceeded, so that the necessary corrective action can be taken promptly preventing escalation of a problem

Darca Heritage software

This advanced software designed for collection managers and conservators is ideal for multi-site working using a central database and provides various levels of system access dependent on administrator controlled user privileges.

Darca Heritage uses floor plans to display readings from individual transmitters in their correct location, with readings colour coded to indicate that all is well or if a value is out of the normal operating range. Not only does the system log the environmental parameters but also the heater/radiator activity. Reports and system statistics can easily be created. Users can also view the individual room graphs via a regular web browser over the internet.

Common specifications

Number of channels	Up to 250
Number of transmitters	Up to 125
Ambient temperature	-10 to +55ºC
Humidity	Up to 95% (non condensing)
Power supply	12V DC at 500mA powered using type MP12U, (input 100-250V AC)
Built-in batteries	6 x AA Ni Mh battery
Backup battery life	Typically 24 hours
Memory	247,000 readings expandable to 2,000,000
Clock accuracy	I second/day at 20ºC
Dimensions	D 60mm x W 180mm x H 120mm
Weight	1Kg inc. batteries
Case material	Scratch resistant Nextel coated ABS
PC/modem interface	RS232C up to 38.4K Baud
Receiver	Crystal controlled
Sensitivity	UHF: -117dBm
Antenna connector	SMA 50 ohm female
Antenna	Quarter wave standard, lightweight dipole optional
Communication options	USB, GSM and Ethernet
Alarm	RX250AL: SMS + 1 contact closure, RX250ALD: SMS + 2 contact closures

AC mains operated with battery backup

Configuration and metering by:

Panel controls and display

Locally connected PC (using Darca Software)

Remotely connected PC (using Darca Software) via direct connection or ethernet (optional)

Non volatile internal memory providing up to 2 million readings of secure data (250,000 readings as standard)

Readings can be scaled into appropriate units (e.g. DC current)

Designed for DC current (0 to 50/100A) monitoring

Sensor inputs for:

non-invasive DC current using split core hall effect CTs (powered by logger)

current shunt precision resistors (50mV or 100mV)

Darca software: easy to use system configuration and data download application. Data can by analysed graphically or exported to CSV.