

Dataterm IHC is a microprocessor based Intelligent Heating Control system researched and developed to provide correct temperature management with minimized fuel burn. It replaces traditional room thermostats and programmers.

Dataterm is fully self learning and fully automatic, it uses state of the art fuzzy logic algorithms to achieve exceptionally close temperature control.

### *Functionality:*

#### **OPTIMUM START / STOP:**

This eliminates fixed start times for the boiler to fire in the hope to heat the building by the time it is required. Instead a start time is calculated to take in to account prevailing weather conditions, preventing fuel waste and maximum comfort.

#### **2ND GEN WEATHER COMPENSATION:**

Dataterm eliminates the use of external sensors as these cannot always allow for solar gain, wind chill or bad placement. Instead Dataterm monitors & memorizes the speed of temperature response internally when the heating is turned on or off. If it takes longer to achieve what was achieved previously then it could well be cooler externally or the opposite if it is faster to respond.

#### **BUILT IN LIFESTYLE PLANS:**

With a choice of 23 plans Dataterm has the flexibility to suit all. 12 personal plans that can be individually tailored to suit your lifestyle and the convenience of 11 pre set plans so it will work straight out of the box.

#### **FLEXIBILITY:**

Personal plans 1-12 have the equivalent of 4 on / off set-points per day for heating and hot water and every day can be the same or different, the choice is yours.

#### **A HELPING HAND:**

Dataterm even has a "Help" button to help you wherever you are in the menu or user interface, pressing it will show you the current set plan, the central heating run times for today, yesterday and since power up! Never feel lost again as it will tell you what to do next with a single press!

#### **BOILER CYCLING PREVENTION:**

Dry cycling the boiler is eliminated when Dataterm is in control mode as it will vary the switching on and off of the boiler saving fuel.



#### **FROST PROTECTION:**

The lowest set-point allowed is 5 degrees Celsius so Dataterm will always provide you with frost protection, external boilers will need separate protection!

#### **HEATING MODES:**

There are 3 modes that allow the Dataterm to optimise to suit the type of system and your budget.

From the factory the set mode is Economy but you could select Normal or Comfort, these modes allow longer pre-heat times to get the temperature you desire.

#### **HOLIDAY MODE:**

A useful feature that sets the holiday plan in use for the duration of your holiday and returns to your previous plan at midnight the day before your return so you come home to heat and hot water.

#### **ACTIVE BOOST:**

Now you can boost your heating for 1 to 3 hours without worrying to remember to turn it off, after the predetermined time the Dataterm will revert back to the plan and continue to monitor the temperature.

#### **HOT WATER BOOST:**

By pressing the hot water tap symbol you can boost the hot water for an hour, more than enough to give you a tank full of hot water outside of what is set in your plan.

#### **CLOSE TEMPERATURE CONTROL:**

Dataterm constantly monitors what's happening and is able to react to the rise and fall in temperature calling the boiler on and off to maintain the required temperature and prevent costly dry cycling.

## WIRELESS SENSORS:

Wireless sensors are available and allow you to sense the temperature easily when it is not possible to run cables due to decor or other physical obstacles.

The sensors operate on 868MHz and have a very reliable range of up to 100m!

So with a Dataterm to suit just about any application from a single heating zone for a combination boiler or a standard system with a hot water cylinder we also have the option of zoning with our Multizone product.

## DATATERM IHC MULTIZONE:

Available with 2, 3 or 4 heating zones with or without hot water, using a mixture of wired or wireless sensors you can control the heat from a centrally located programmer running any number of the personal or pre set plans.

By zoning a system we are able to better control the heat requirement of a building and reduce the total cost to heat it.

### Application:

#### Any Conventional System, Gas or Oil.

*Radiators  
Underfloor Heating  
Ducted Warm Air  
Electric Boilers*

#### Suits a Wide Range of Building Types.

*Homes Large or Small  
Commercial Property  
Zoned Properties  
Pubs, Schools and Offices  
Churches and Halls  
Community Centres*

### System Compatibility:

**Compatible with all Boilers.** (requiring a switched demand)  
*System Boilers, Combination Boilers,  
Conventional Boilers even Heat Pumps.*

#### Easy Integration.

*Easily wire and control S & Y Plan systems, hot water priority systems, mains pressure cylinders utilising volt free or mains switching.*



### External Communication:

#### Dataterm IHC via USB Lead

*A software suite is available to programme and interrogate the Dataterm.*

*Custom Naming of Personal Plans  
Set The Time from PC  
Download Heating Graphs  
Temperature Calibration  
Test / Operate any Zone*

#### SUMMER / WINTER ADJUSTMENT

*Dataterm has seasonal adjustment built in and will automatically change the clock in spring and autumn by 1 hour.*

*In the event of a power cut Dataterm will retain all programming and clock function so that when the power comes back on it will be where it should be, controlling the heat.*

### Technical Data:

**Power:** 230VAC / 50Hz - 12VDC

**Relays:** 10A Rating Fused at 3.15A

**Dataterm:** 12VDC **H x W x D**

**Dataterm Programmer:** 85 x 160 x 29mm

**Standard Wiring Centre:** 200 x 165 x 55mm

**Multizone Wiring Centre:** 300 x 230 x 90mm

**Sensors:** 80 x 80 x 28mm