

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 wasteful room thermostats and programmers.

Dataterm is self educating and fully automatic, It uses state-of-the-art "fuzzy logic" techniques to achieve exceptionally close temperature control.



Functions

OPTIMUM START/STOP

This eliminates fixed start time for boiler firing. Instead, a start time is calculated to take into account prevailing weather conditions, preventing fuel waste. Dataterm optimizes off by allowing temperature to fall 1°C just before a set reduction.

2ND GENERATION WEATHER COMPENSATION

This eliminates the external sensor process, which cannot allow for wind chill factor. Dataterm monitors & memorizes speed of temperature response in a building when heating is switched on and off. This data is used in a self-educating process which produces stable chosen temperatures by adapting switching patterns to fluctuating thermal conditions.

30 BUILT-IN LIFESTYLE PLANS

Choice of ready-made central heating and hot water programmes, suitable for varying occupancy needs. All ready to go.

3 PERSONAL PLANS

Each can be custom-designed to suit the user's lifestyle. Every day of the week, eight time and temperature set points can be programmed with a desired temperature, or left unused. All personal plans remain in memory, with manual override always available.

HELP FUNCTION

A single Help key provides context-sensitive online help messages via the display screen.

HOT WATER CONTROL

Choice of any-time, four 'ons' and four 'offs' per day, with cancellable one-hour boost at any time.

BOILER CYCLING PREVENTION

Dry cycling of boiler is eliminated, being under overall control of the system.

FROST PROTECTION

Dataterm will always monitor falling temperature and fire the boiler safely in time.

ADDITIONAL FEATURES

Dataterm also offers Celsius or Fahrenheit display options, special 'holiday' plans, fuel monitoring, and inbuilt test facilities, all easily read from the crisp backlit LCD display.

Applications

Any gas or oil-fired conventional wet central heating system with or without the requirement for hot water.

Ducted hot air systems

Underfloor heating

Electric-powered central heating systems

SUITS A WIDE RANGE OF BUILDING TYPES:

Houses, flats, maisonettes, zoned larger residences, small commercial buildings, public houses, offices and shops, schools, libraries and churches.

Multi zone Systems

Dataterm is available in 2, 3, 4 or as many zones as you require and we can build the control panel to the system requirement saving on installation time and complexity. Normal specification covers 2 port spring return motorized valves, motor open motor close, 24 volt and mains switching.

System compatibility

Compatible with all types of boiler or switchable heat sources even sequenced boilers.

Easy control of S-Plan and Y-Plan systems, mains pressure cylinders using hot water priority and combination boiler requirements.

Suitable for boilers with pump over run.

Compatible with mains or low voltage cylinder thermostats and Thermostatic Radiator Valves (TRV's).

External communications

Dataterm IHC has an external communications interface (RS232) that will enable the end user to access special features showing the profile achieved over the past six days. This is a useful way of identifying faults on the system, simply study the down loaded graph to see what temperatures have been achieved and at what time.

From your PC you have control of any particular zone, you can lower or raise the temperature or boost the hot water, download new profiles simply and quickly.

Multizones

Larger homes or work places usually mean larger heating requirements and with Part L of the building regulations calling for zoning Dataterm IHC Multizone is equally suited here as it is anywhere else.

Control different area's of the building based on usage, for instance why heat bedrooms all day when a little background heat is all that is required?

Zoning means time and temperature set-points as and when you want them, flexible and easy saving you a fortune in fuel and emissions.

Simply adding contactors or relays to the out-puts of the control panel we can switch higher loads and control large pumps, fans, valves and boilers, so from a 1 bed flat to large school Dataterm has it covered.

Options available include

- Fan run on
- Motor Open / Close
- Pump Over-run
- Contactor Switching
- Delayed Start / Stop
- Individual Boiler Control

So if you have a Modern or old heating system and you require absolute control and energy savings, put your requirements to us and we will build a custom panel to suit your needs. It will be easy to fit and save hours on installation time, once commissioned will save £££s and give a high level of comfort and control.

Performance monitoring

The Department of Environment and the Building Research Establishment provide important energy efficiency statistics and usage data for IHC installation in the Green House Profile No.7, (March 1995)

National Home Energy Rating (NHER)

In August 1996 the National Energy Services List updated NHER to include a new Intelligent Heating Control category which is the highest standard for any heating control in the United Kingdom.

It had to be created solely for Warmworld's Dataterm IHC, and when the Standard Assessment Procedure (SAP) in the Building Regulations was updated in early 1999 it also included the Dataterm IHC.

Product reference

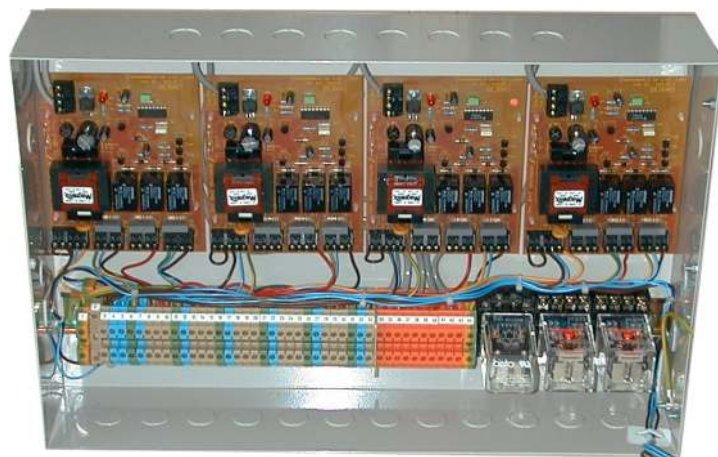
	Code	
Dataterm	382/971	GC Number
Order Ref.	D3IHC/BL	Complete Unit
	D3SCPCB/BL	Switching Centre
	D3HD/BL	Dataterminal
Multizone.	D3-2Zone	2 Zone Htg + Hot Water
	D3-3Zone	3 Zone Htg + Hot Water
	D3-4Zone	4 Zone Htg + Hot Water
RS	RS	Remote Sensor



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D3-4Zone IHC Wiring Centre



Installation notes

- Dataterm IHC contains two failsafe mechanisms which ensure that all relay outputs switch off in the event of system failure.
- Dataterm IHC normal operation is unaffected by power failure. Clock retains correct time.
- Dataterm IHC is supplied from the factory with the clock set correctly and all operating parameters configured.
- Screened cable, for connection between data terminal and switching centre / remote sensor, it is effective for up to 100 metres.
- Installation set-up options are accessed via the data terminal and a concealed 'installer menu', using a special access process provided with the Dataterm Installation Guide.
- T23 is a version of Dataterm that will help prevent excessively high fuel bills by limiting the set temperature to a maximum of 23°C, it is useful where tampering could be an issue. This can take place in public areas, ie (schools or offices)

Data

Dimensions:

Dataterminal	hwd	85x160x29mm
Standard Switching Centre		200x165x55mm

(Height measurement does not include wiring gland protrusion, additional clearance needed for cable entry)

MultiZone 2	300x230x90mm
MultiZone 3 & 4	300x450x90mm

Power:

Voltage	240vAC 50Hz 3A
(Higher loads switchable via relays/contactors)	

Complies with Part L of the Building Regulations UK and SBSA 6.3 Scotland.

