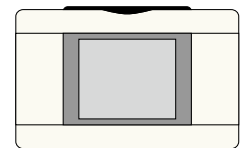


# The Daikin Driver

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The Daikin driver interfaces to a Daikin air-conditioning system. Compatible with the Daikin VRV, HRV and SkyAir ranges. Available for Commander and ObSys.

This document relates to Daikin driver version 1.0 and 1.1

Please read the *Commander Manual* or *ObSys Manual* alongside this document, available from [www.northbt.com](http://www.northbt.com)

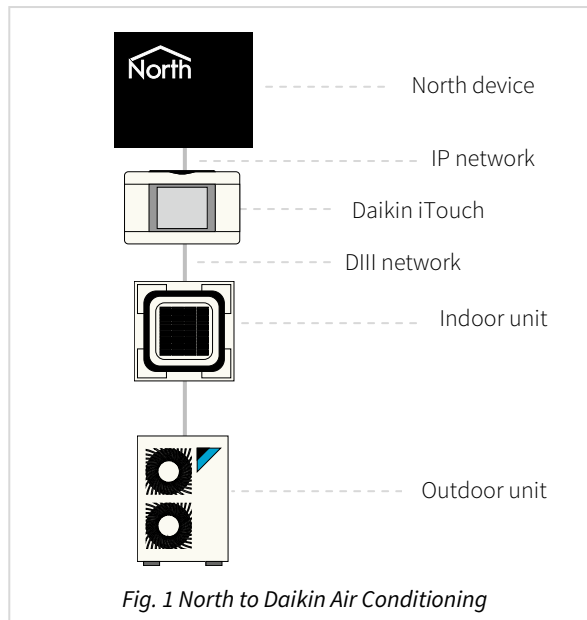
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# Compatibility with the Daikin System

The Daikin driver allows North to interface with a Daikin air-conditioning system.

The driver connects, via an Ethernet network, to a single Daikin intelligent Touch (iTouch) Controller or Manager (Fig. 1). Each iTouch can support up to 64 groups of indoor units. Install DIII-Net Plus adapters to expand support to up to 128 groups on the iTouch Controller, or 512 groups on the iTouch Manager.



Alternatively, a Daikin BACnet or LonWorks gateway may be installed and connected to the North BACnetIP or Lon drivers respectively. A Daikin Modbus interface is also available and may be connected to the North Modbus driver.

## Equipment

Daikin systems compatible with the driver include VRV and HRV ranges, SkyAir and Split ranges via an interface adapter, and digital input-output (DI/DIO) units.

## Values

Depending on the type of Daikin indoor units connected, the following values are typically available:

- On/Off state
- Operating mode
- Room temperature
- Temperature set point
- Air direction
- Fan speed
- Filter dirty
- Error state
- Malfunction code

## Prerequisites

The Daikin iTouch Controller (DCS601C51) must have the *HTTP Interface* option (DCS007A51) activated. Set the Web Server HTTP port (the default port is 80).

The Daikin iTouch Manager (DCM601A51) must have the *Open Protocol for BMS integration* (DCM007A51) activated. Set the Web I/F Server port (the default port is 8081). The username and password is not used.

Set the Network IP address of the Daikin iTouch. If you are connecting via a firewall, then the driver will require access to the configured TCP port number.

# Using the Driver

On ObSys and Commander, the Daikin driver is pre-installed. On all of these North devices, you can use the driver to create an interface to Daikin. Once started, you will need to set up the driver before it can communicate with the Daikin system.

When updating the driver on Commander, the CDM file is available to install in to bank 22.

## Starting the Interface

- 📖 To start an interface using the Daikin driver, follow these steps:
  - **Start Engineering** your North device using ObSys
  - Navigate to **Configuration, Interfaces**, and set an unused **Interface** to 'Daikin' to start the particular interface
  - Navigate to the top-level of your North device and re-scan it

The driver setup object (Mc), labelled **Daikin Setup**, should now be available. If this object is not available, check an interface licence is available and the driver is installed.

## Setting up the Driver

- 📖 To set up the driver, follow these steps:
  - Navigate to the **Daikin Setup** object (Mc). For example, if you started interface 1 with the driver earlier, then the object reference will be 'M1'
  - Select the **iTouch Model** (IM)
  - Set the **iTouch IP Address** (IA) and **iTouch HTTP Port** (PN) to those configured in the Daikin iTouch earlier

## Checking Communications

You can check that the interface is communicating by reading the **Device Communicating** object (DS). A value of 'yes' indicates the driver has connected to, and is communicating with, the Daikin iTouch.

# Object Specifications

Once an interface is started, one or more extra objects become available within the top-level object of the device. As with all North objects, each of these extra objects may contain sub-objects, (and each of these may contain sub-objects, and so on) – the whole object structure being a multi-layer hierarchy. It is possible to navigate around the objects using the ObSys Engineering Software.

Each object is specified below, along with its sub-objects.

## Example Object Reference

An example of a reference to an object in the same device: the Daikin system object (S1) contains Network 1 (N1), with group address 1-00 (O1I0), which contains a label object (L). Therefore, the object reference will be 'S1.N1.O1I0.L'.

An example of a reference to an object in a different device: the IP network object (IP) contains Default Commander object (CDIP), which contains the object above (S1.N1.O1I0.L) – therefore the complete object reference is 'IP.CDIP.S1.N1.O1I0.L'.

## Device Top-Level Objects

When an interface is started using the Daikin driver, the objects below become available within the top-level object of the device. For example, if Interface 1 is started, then the object with references 'M1' and 'S1' become available.

| Description   | Reference | Type   |
|---|-----------|--|
| <b>Daikin Setup</b><br>Set up the Daikin driver, started on interface <i>c</i> ( <i>c</i> is the interface number)  | Mc        | Fixed Container:<br>On the Commander platform this will be<br><i>[CDM v20\Daikin v11]</i><br>On the ObSys platform this will be<br><i>[OSM v20\Daikin v11]</i> |
| <b>Daikin AC System</b><br>Access Daikin system connected to interface <i>c</i> ( <i>c</i> is the interface number) | Sc        | Variable Container:<br>For an iTouch Controller, this will be<br><i>[Daikin v11\Ctr]</i><br>For an iTouch Manager, this will be<br><i>[Daikin v11\Mngr]</i>    |

# Daikin Driver Setup

Object Type: [OSM v20\Daikin v11]

Object Type: [CDM v20\Daikin v11]

Object Type: [OSM v20\Daikin v10]

Object Type: [CDM v20\Daikin v10]

The Daikin driver contains the following objects:

| Description  | Reference | Type  |
|--|-----------|---|
| <b>Device Label</b><br>Label displayed when scanning the system  | DL        | Obj\Text; Max. 20 chars; Adjustable                                   |
| <b>iTouch Model</b><br>Select the model of iTouch installed.<br>Available in driver version 1.1 only   | IM        | Obj\Enum; Adjustable<br>Values: 0=iTouch Controller, 1=iTouch Manager |
| <b>iTouch IP Address</b><br>IP address of the remote Daikin iTouch   | IA        | Obj\IP; Adjustable  |
| <b>iTouch HTTP Port</b><br>Port number configured for the HTTP/Web Interface in the remote Daikin iTouch.<br>On iTouch Controllers the default port is 80, on iTouch Managers it is 8081 | PN        | Obj\Num: 1024...65535; Adjustable                                     |
| <b>Device Communicating</b><br>Indicates the driver has connected to and is receiving data from the iTouch   | DS        | Obj\NoYes   |
| <b>Reset Driver</b><br>This will clear the driver's database of values and then re-initialize communications with the iTouch   | RST       | Obj\NoYes; Adjustable   |
| <b>Debug Enable</b><br>This will store additional debug information in the record file. Use this option only when instructed by North Support  | DE        | Obj\NoYes; Adjustable   |

# Daikin System

Object Type: [Daikin v11\Ctrl]

Object Type: [Daikin v11\Mngr]

Object Type: [Daikin v10]

The Daikin system contains objects to access the DIII networks. Network 1 is used for the controller's local DIII network; other networks require the optional DIII-NET Plus adapter installing.

| Description   | Reference | Type                                 |
|---|-----------|--------------------------------------|
| <b>Network x</b><br>The network number, x, is in the range 1...2 when connected to an iTouch Controller, or 1...8 when connected to an iTouch Manager | Nx        | Fixed Container:<br>[Daikin v11\Net] |

## Network

Object Type: [Daikin v11\Net]

Object Type: [Daikin v10\Net]

The Daikin DIII network contains objects to access the configured groups of indoor units. Scan the object to find the groups available. Each network supports up to 64 groups.

| Description   | Reference | Type   |
|---|-----------|--|
| <b>Outdoor y Indoor z</b><br>The outdoor unit, y, is in the range 1...4.<br>The indoor unit, z, is in the range 0...15. | Oylz      | Fixed Container, one of the following:<br>Air-conditioning (VRV)<br>[Daikin v11\VRV]<br>Ventilation (HRV)<br>[Daikin v11\HRV]<br>Digital Input (DI)<br>[Daikin v11\D3DI]<br>Digital Input-Output (DIO)<br>[Daikin v11\D3DIO]<br>DIII Chiller<br>[Daikin v11\D3]<br>Altherma Heating<br>[Daikin v11\Altherma]<br>Inverter Chiller<br>[Daikin v11\INV] |

# Daikin VRV Units

Object Type: [Daikin v11\VRV]

Object Type: [Daikin v10\VRV]

Daikin VRV air-conditioning units contain the following objects:

| Description  | Reference | Type  |
|--|-----------|---|
| <b>Label</b>   | L         | Obj\Text; Max. 32 chars   |
| <b>Unit Type</b>   | T         | Obj\Enum: 1...7<br>Values: 1=DI, 2=DIO, 3=VRV, 4=HRV, 5=DIII, 6=Altherma, 7=Inv   |
| <b>On/Off Status</b><br>See note 1   | S         | Obj\OffOn; Adjustable   |
| <b>Operation Mode</b><br>See note 1  | M         | Obj\Enum: 0...9; Adjustable<br>Values: 0=Fan, 1=Heat, 2=Cool, 4=Dependent, 5=Ventilation, 6=Dry, 8=Auto (Heat), 9=Auto (Cool) |
| <b>Set point (°C)</b><br>Set point is not adjustable when operation mode is fan or dry. See note 1   | ST        | Obj\Num: 16...32; Adjustable  |
| <b>Room Temperature (°C)</b><br>Depending on operation mode, the temperature sensor may be inaccurate due to the influence of heat exchangers. Use with caution. | RT        | Obj\Float: 2...50   |
| <b>Fan Speed</b><br>Two-speed fans only support low/middle speeds. See note 1  | FS        | Obj\Enum: 0...2; Adjustable<br>Values: 0=Low, 1=Medium, 2=High.   |
| <b>Fan Direction</b><br>See note 1   | FD        | Obj\Enum: 0...7; Adjustable<br>Values: 0=Horizontal, 1=Mid1, 2=Mid2, 3=Mid3, 4=Mid4, 5=Mid5, 6=Vertical, 7=Swing              |
| <b>Filter Dirty</b><br>To clear the filter dirty fault, write 'No'(0) to this object   | F         | Obj\NoYes; Adjustable   |
| <b>Error Detected</b>  | E         | Obj\NoYes   |
| <b>Malfunction Code</b><br>See <a href="#">Appendix A</a>  | FLT       | Obj\Text: 2 chars   |
| <b>Malfunction Code – as Number</b><br>See <a href="#">Appendix A</a>  | FLTB      | Obj\Num: 0...1919   |

## Notes

1. On/Off status, operation mode, set point, fan speed, and fan direction are stored within the Daikin unit in non-volatile memory. This memory has a limitation on the frequency it can be set, so do not adjust these objects more than 7000 times/year.



# Daikin HRV Units

Object Type: [Daikin v11\HRV]

Object Type: [Daikin v10\HRV]

Daikin HRV ventilation units contain the following objects:

| Description   | Reference | Type  |
|---|-----------|---|
| <b>Label</b>  | L         | Obj\Text; Max. 32 chars   |
| <b>Unit Type</b>  | T         | Obj\Enum: 1...7<br>Values: 1=DI, 2=DIO, 3=VRV, 4=HRV, 5=DIII, 6=Altherma, 7=Inv   |
| <b>On/Off Status</b><br>See note 1                                    | S         | Obj\OffOn; Adjustable   |
| <b>Ventilation Mode</b><br>See note 1                                 | VM        | Obj\Enum: 0...9; Adjustable<br>Values: 0=Auto, 1=Heat Exchange, 2=Bypass  |
| <b>Ventilation Amount</b><br>See note 1                               | VA        | Obj\Enum: 0...5; Adjustable<br>Values: 0=Auto (normal), 1=Low (normal), 2=High (normal), 3=Auto (fresh up), 4=Low (fresh up), 5=High (fresh up) |
| <b>Error Detected</b>   | E         | Obj\NoYes   |
| <b>Malfunction Code</b><br>See <a href="#">Appendix A</a>             | FLT       | Obj\Text: 2 chars   |
| <b>Malfunction Code – as Number</b><br>See <a href="#">Appendix A</a> | FLTB      | Obj\Num: 0...1919   |

## Notes

1. On/Off status, ventilation mode, and ventilation amount are stored within the Daikin unit in non-volatile memory. This memory has a limitation on the frequency it can be set, so do not adjust these objects more than 7000 times/year.

## Daikin DIO Units

Object Type: [Daikin v11\D3DIO]

Object Type: [Daikin v10\D3DIO]

Daikin DIO digital input-output units contain the following objects:

| Description   | Reference | Type  |
|---|-----------|---|
| <b>Label</b>  | L         | Obj\Text; Max. 32 chars   |
| <b>Unit Type</b>  | T         | Obj\Enum: 1...7<br>Values: 1=DI, 2=DIO, 3=VRV, 4=HRV, 5=DIII, 6=Altherma, 7=Inv |
| <b>On/Off Status</b>  | S         | Obj\OffOn; Adjustable   |
| <b>Error Detected</b>   | E         | Obj\NoYes   |
| <b>Malfunction Code</b><br>See <a href="#">Appendix A</a>             | FLT       | Obj\Text: 2 chars   |
| <b>Malfunction Code – as Number</b><br>See <a href="#">Appendix A</a> | FLTB      | Obj\Num: 0...1919   |

## Daikin DI Units

Object Type: [Daikin v11\D3DI]

Object Type: [Daikin v10\D3DI]

Daikin DI digital input units contain the following objects:

| Description   | Reference | Type  |
|---|-----------|---|
| <b>Label</b>  | L         | Obj\Text; Max. 32 chars   |
| <b>Unit Type</b>  | T         | Obj\Enum: 1...7<br>Values: 1=DI, 2=DIO, 3=VRV, 4=HRV, 5=DIII, 6=Altherma, 7=Inv |
| <b>On/Off Status</b>  | S         | Obj\OffOn   |
| <b>Error Detected</b>   | E         | Obj\NoYes   |
| <b>Malfunction Code</b><br>See <a href="#">Appendix A</a>             | FLT       | Obj\Text: 2 chars   |
| <b>Malfunction Code – as Number</b><br>See <a href="#">Appendix A</a> | FLTB      | Obj\Num: 0...1919   |

# Daikin Generic Units

Object Type: [Daikin v11\D3]

Object Type: [Daikin v11\Altherma]

Object Type: [Daikin v11\INV]

Object Type: [Daikin v11\Other]

Object Type: [Daikin v10\Other]

Other types of Daikin unit may contain any of the following objects, however not all objects may be supported.

| Description  | Reference | Type  |
|--|-----------|---|
| <b>Label</b>   | L         | Obj\Text; Max. 32 chars   |
| <b>Unit Type</b>   | T         | Obj\Enum: 1...7<br>Values: 1=DI, 2=DIO, 3=VRV, 4=HRV, 5=DIII, 6=Altherma, 7=Inv   |
| <b>On/Off Status</b><br>See note 1   | S         | Obj\OffOn; Adjustable   |
| <b>Operation Mode</b><br>See note 1  | M         | Obj\Enum: 0...9; Adjustable<br>Values: 0=Fan, 1=Heat, 2=Cool, 4=Dependent, 5=Ventilation, 6=Dry, 8=Auto (Heat), 9=Auto (Cool)                   |
| <b>Set point (°C)</b><br>Set point is not adjustable when operation mode is fan or dry. See note 1   | ST        | Obj\Num: 16...32; Adjustable  |
| <b>Room Temperature (°C)</b><br>Depending on operation mode, the temperature sensor may be inaccurate due to the influence of heat exchangers. Use with caution. | RT        | Obj\Float: 2...50   |
| <b>Fan Speed</b><br>Two-speed fans only support low/middle speeds. See note 1  | FS        | Obj\Enum: 0...2; Adjustable<br>Values: 0=Low, 1=Medium, 2=High.   |
| <b>Fan Direction</b><br>See note 1   | FD        | Obj\Enum: 0...7; Adjustable<br>Values: 0=Horizontal, 1=Mid1, 2=Mid2, 3=Mid3, 4=Mid4, 5=Mid5, 6=Vertical, 7=Swing                                |
| <b>Filter Dirty</b><br>To clear the filter dirty fault, write 'No'(0) to this object   | F         | Obj\NoYes; Adjustable   |
| <b>Defrost/Hot Start</b>   | DF        | Obj\NoYes   |
| <b>Ventilation Mode</b><br>See note 1  | VM        | Obj\Enum: 0...9; Adjustable<br>Values: 0=Auto, 1=Heat Exchange, 2=Bypass  |
| <b>Ventilation Amount</b><br>See note 1  | VA        | Obj\Enum: 0...5; Adjustable<br>Values: 0=Auto (normal), 1=Low (normal), 2=High (normal), 3=Auto (fresh up), 4=Low (fresh up), 5=High (fresh up) |
| <b>Error Detected</b>  | E         | Obj\NoYes   |
| <b>Malfunction Code</b><br>See <a href="#">Appendix A</a>  | FLT       | Obj\Text: 2 chars   |
| <b>Malfunction Code – as Number</b><br>See <a href="#">Appendix A</a>  | FLTB      | Obj\Num: 0...1919   |

## Notes

1. On/Off status, operation mode, set point, fan speed, and fan direction are stored within the Daikin unit in non-volatile memory. This memory has a limitation on the frequency it can be set, so do not adjust these objects more than 7000 times/year.

# Appendix A: Daikin Malfunction Codes

Daikin malfunction codes contain two alphanumeric characters, and are available for each unit using the object FLT.

A full list of malfunction codes is available within Daikin documentation for a unit, and from [www.drdaikin.com](http://www.drdaikin.com).

Summary of VRV and HRV malfunction codes:

|                     | Malfunction Code                               | Description  |
|---------------------|--|--|
| <b>Indoor Unit</b>  | A0   | External protection device activated                                   |
|                     | A1   | Malfunction of indoor unit PCB   |
|                     | A6   | Fan motor locked, overload, overcurrent                                |
|                     | A7   | Malfunction of swing flap motor  |
|                     | A8   | Malfunction of power supply  |
|                     | A9   | Malfunction of electronic expansion valve drive                        |
|                     | AF   | Malfunction of a humidifier system                                     |
|                     | AH   | Malfunction of dust collector of air cleaner                           |
|                     | AJ   | Malfunction of capacity setting (Indoor unit PCB)                      |
|                     | C1   | Failure of transmission (between indoor unit PCB and fan PCB)          |
|                     | C4   | Malfunction of liquid pipe thermistor for heat exchanger               |
|                     | C5   | Malfunction of gas pipe thermistor for heat exchanger                  |
|                     | C6   | Malfunction of fan motor control driver                                |
|                     | C9   | Malfunction of suction air thermistor                                  |
|                     | CA   | Malfunction of discharge air thermistor                                |
|                     | CJ   | Malfunction of thermostat sensor in remote controller                  |
|                     | E0   | Protection devices actuated (unified)                                  |
|                     | E1   | Defect of outdoor unit PCB   |
|                     | E3   | Actuation of high pressure switch (HPS)                                |
|                     | E4   | Actuation of low pressure switch (LPS)                                 |
| E5                  | Inverter compressor motor lock                 |  |
| E6                  | STD compressor motor overcurrent/lock          |  |
| E7                  | Malfunction of outdoor unit fan motor          |  |
| E9                  | Malfunction of electronic expansion valve coil |  |
| EC                  | Malfunction of entering water temperature      |  |
| EF                  | Malfunction of thermal storage unit            |  |
| F3                  | Malfunction of discharge pipe temperature      |  |
| F6                  | Refrigerant overcharged                        |  |
| <b>Outdoor Unit</b> | H3   | Malfunction of high pressure switch (HPS)                              |
|                     | H4   | Malfunction of low pressure switch (LPS)                               |
|                     | H7   | Malfunction of outdoor fan motor signal                                |
|                     | H9   | Malfunction of outdoor air thermistor                                  |
|                     | HC   | Malfunction of (hot) water temperature thermistor                      |
|                     | HF   | Alarm in thermal storage unit with ice                                 |
|                     | HJ   | Malfunction of thermal storage tank water level                        |
|                     | J1   | Malfunction of pressure sensor   |
|                     | J2   | Malfunction of current sensor of compressor                            |
|                     | J3   | Malfunction of discharge pipe thermistor                               |
|                     | J5   | Malfunction of suction pipe thermistor                                 |
|                     | J6   | Malfunction of heat exchanger thermistor                               |
|                     | J7   | Malfunction of liquid pipe thermistor (Refrigerant circuit and others) |
|                     | J9   | Malfunction of gas pipe thermistor (Refrigerant circuit and others)    |
|                     | JA   | Malfunction of high pressure sensor                                    |
|                     | JC   | Malfunction of low pressure sensor                                     |
|                     | JE   | Malfunction of sub-tank thermistor                                     |
|                     | JF   | Malfunction of heating thermistor for heat exchanger                   |

|                     | Malfunction Code   | Description  |
|---------------------|--|--|
| <b>Outdoor Unit</b> | JH   | Malfunction of oil temperature thermistor                                  |
|                     | L0   | Malfunction of inverter system   |
|                     | L1   | Malfunction of inverter PCB  |
|                     | L4   | Malfunction of inverter radiating fin temperature rise                     |
|                     | L5   | Inverter instantaneous overcurrent (DC)                                    |
|                     | L6   | Inverter instantaneous overcurrent (AC)                                    |
|                     | L8   | Overcurrent of inverter compressor   |
|                     | L9   | Malfunction of inverter compressor Startup                                 |
|                     | LA   | Malfunction of power transistor  |
|                     | LC   | Malfunction of transmission between control and inverter PCB               |
|                     | P0   | Shortage of refrigerant amount (thermal storage unit)                      |
|                     | P1   | Power voltage imbalance, open phase  |
|                     | P2   | Automatic refrigerant charge operation stop                                |
|                     | P4   | Malfunction of radiating fin temperature sensor                            |
|                     | P8   | Heat exchanger freezing protection during automatic refrigerant charging   |
|                     | P9   | Automatic refrigerant charge operation completed                           |
|                     | PA   | Empty refrigerant cylinder during automatic refrigerant charging           |
|                     | PC   | Empty refrigerant cylinder during automatic refrigerant charging           |
|                     | PE   | Automatic refrigerant charge operation nearly completed                    |
|                     | PH   | Empty refrigerant cylinder during automatic refrigerant charging           |
| <b>System</b>       | PJ   | Improper combination between inverter and fan driver                       |
|                     | U0   | Shortage of refrigerant  |
|                     | U1   | Reverse phase, open phase  |
|                     | U2   | Defect of power supply voltage or instantaneous power failure              |
|                     | U3   | Check operation not executed   |
|                     | U4   | Malfunction of transmission between indoor and outdoor unit                |
|                     | U5   | Malfunction of transmission between indoor unit and remote controller      |
|                     | U6   | Malfunction of transmission between indoor units                           |
|                     | U7   | Malfunction of transmission between outdoor units                          |
|                     | U8   | Malfunction of transmission between remote controllers                     |
|                     | U9   | Malfunction of transmission (other system)                                 |
|                     | UA   | Improper combination of indoor and outdoor units                           |
|                     | UC   | Malfunction of setting of centralized controller address                   |
|                     | UE   | Malfunction of transmission between indoor unit and centralized controller |
|                     | UF   | Wiring and piping mismatch   |
|                     | UH   | Malfunction of system  |
|                     | UJ   | Malfunction of transmission (Accessory devices)                            |
|                     | M1   | Malfunction of centralized remote controller PCB                           |
| M8                  | Malfunction of transmission between optional controllers for centralized control |  |
| MA                  | Improper combination of optional controllers for centralized control             |  |
| MC                  | Address duplication, improper setting  |  |

## Malfunction Codes as a Number

The driver can translate the Daikin malfunction code to a number using the object FLTB, providing an more interoperable value.

Each character of the malfunction code is translated into a number in the range 00..19, using this table:

| Character | Number   |
|-----------|----------|
| 0 to 9    | 00 to 09 |
| A         | 10       |
| C         | 11       |
| E         | 12       |
| F         | 13       |
| H         | 14       |
| J         | 15       |
| L         | 16       |
| M         | 17       |
| P         | 18       |
| U         | 19       |

Examples:

'UE' becomes 1912

'A7' becomes 1007

'60' becomes 600

# Driver Versions

| Version | Build Date | Details  |
|---------|------------|--|
| 1.0     | 18/2/2015  | Released   |
| 1.1     | 12/10/2016 | Added support for Daikin iTouch Manager              |
| 1.1     | 8/1/2017   | Improved speed of processing large response from iTM |

## Next Steps...

If you require help, contact support on 01273 694422 or visit [www.northbt.com/support](http://www.northbt.com/support)



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