

The Heatmiser Driver

The Heatmiser driver allows North to interface with a Heatmiser 12V heating and hot water control system. Available for Commander and ObSys.

This document relates to Heatmiser driver version 1.1

Please read the *Commander Manual* or *ObSys Manual* alongside this document, available from www.northbt.com

Contents

Compatibility with the Heatmiser System.....	3
Equipment	3
Values.....	3
Prerequisites.....	4
Using the Driver	5
Making the Cable	5
Starting the Interface	5
Setting up the Driver.....	5
Object Specifications.....	6
Example Object Reference	6
Device Top-Level Objects	6
Heatmiser Driver Setup	7
Heatmiser System.....	8
DT-N and DT-NS Room Thermostat.....	9
DT-E Room Thermostat.....	10
PRT-N and PRT-NTS Room Thermostat.....	11
PRT-EN and PRT-ENTS Floor Heating Programmable Room Thermostat	13
PRTHW Programmable Thermostat with Hot Water Control	15
TM1 One Channel Timeclock Thermostatic Controller.....	17
Times.....	19
OnOffTimes.....	20
Driver Versions	22

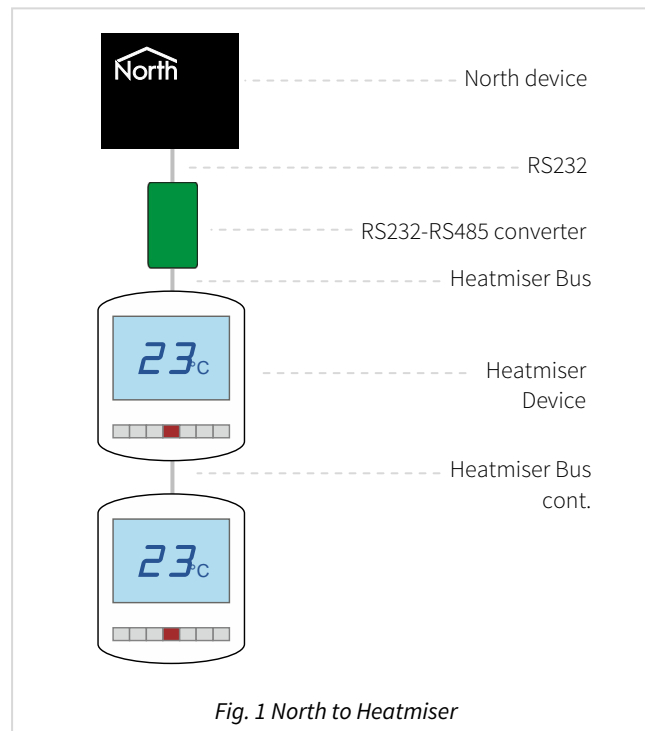
Compatibility with the Heatmiser System

The Heatmiser driver allows North to interface with a Heatmiser 12V heating and hot water control system.

The driver connects, via an RS232/485 converter, to the range of Heatmiser 12V networkable modules (Fig. 1). These include programmable room thermostats, underfloor heating thermostats, and hot water thermostats.

Up to 32 Heatmiser thermostats can be networked to the driver.

The HeatmiserNeo driver is also available for connecting to the Heatmiser Neo range.



Equipment

The driver is compatible with up to 32 12V network modules running version 3 protocol. These include the following devices:

- **PRT – N and PRT – NTS** – Programmable room thermostat
- **PRT – EN and PRT – ENTS** – Floor heating programmable room thermostat
- **PRT/HW – N** – Programmable thermostat, with hot water control
- **DT – N, DT – EN and DT – NTS** – Room thermostat
- **TM1 – N** – One channel time-clock

Values

The driver can typically access the following values from the Heatmiser system:

- Room Temp Setpoint
- Remote/Built-in Air Temp
- Floor Temp
- Frost Protection Temp
- Unit OffOn
- Error Code
- Room Temp Setpoint
- Remote/Built-in Air Temp
- Output Delay
- Each day time periods
- Optimum start status
- Run Mode

Prerequisites

Each Heatmiser controller on the network must be given a unique address in the range 1...32.

The communication speed of the bus is 4800 baud with 10 bit data, so the RS232/485 converter must also be set to this speed.

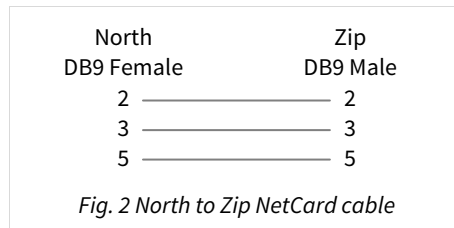
Using the Driver

On ObSys, the Heatmiser driver is pre-installed. On Commander, the driver is available to download in the file 'Bank11 Heatmiser.cdm'. On all of these North devices, you can use the driver to create an interface to Heatmiser. Once started, you will need to set up the driver before it can communicate with the Heatmiser system.

Making the Cable

Connect the North device COM port to an RS232 to RS485 adapter.

Using the RS485 cable specification (Fig. 2), connect the RS485 adapter to the Heatmiser network.



RS485 adapters are available from North, order code MISC/RS232/485. Please specify that a baud rate of 4800 will be required when ordering.

Starting the Interface

- 🖥️ To start an interface using the Heatmiser driver, follow these steps:
 - **Start Engineering** your North device using ObSys
 - Navigate to **Configuration, Interfaces**, and set a unused **Interface** to 'Heatmiser' to start the particular interface
 - Navigate to the top-level of your North device, then rescan it

The driver setup object (Mc), labelled **Heatmiser 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 **Heatmiser Setup** object (Mc). For example, if you started interface 1 with the driver earlier, then the object reference will be 'M1'
 - Set the **COM Port** object (RS.COM) to select which serial port number on the North device the Heatmiser system is connected.

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 Heatmiser System (S1) contains a Heatmiser module at address one (U1). This module contains a Floor Temp value (X36). Therefore, the complete object reference is 'S1.U1.X36'.

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.U1.X36) – therefore the complete object reference is 'IP.CDIP.S1.U1.X36'.

Device Top-Level Objects

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

Description	Reference	Type
Heatmiser Setup Set up the Heatmiser driver, started on interface <i>c</i> (<i>c</i> is the interface number)	Mc	Fixed Container: On the Commander platform this will be <i>[CDM v20\Heatmiser v11]</i> On the ObSys platform this will be <i>[OSM v20\Heatmiser v11]</i>
Heatmiser System Access Heatmiser system connected to interface <i>c</i> (<i>c</i> is the interface number)	Sc	Variable Container: <i>[Heatmiser v11\Net]</i>

Heatmiser Driver Setup

Object Type: *[OSM v20\Heatmiser v11]*

Object Type: *[CDM v20\Heatmiser v11]*

The Heatmiser driver contains the following objects:

Description	Reference	Type
RS232 COM Port	RS.COM	Obj\Num; Range: 1...8; Adjustable
Device Label	DL	Obj\Text; Max. 20 chars; Adjustable

Heatmiser System

Object Type: *[Heatmiser v11\Net]*

Each Heatmiser system can contain a network of Heatmiser modules of various types. Up to 32 zones are supported, each zone controlled by one of the 12V network modules.

Description	Reference	Type
Heatmiser module x The Heatmiser module number, x , is in the range 1...32	U x	Fixed container: <i>[Heatmiser v11/DT]</i> <i>[Heatmiser v11/DTE]</i> <i>[Heatmiser v11/PRT]</i> <i>[Heatmiser v11/PRTE]</i> <i>[Heatmiser v11/PRTHW]</i> <i>[Heatmiser v11/TM1]</i>

DT-N and DT-NS Room Thermostat

Object Type: *[Heatmiser v11/DT]*

The Heatmiser DT is a thermostatic controller. The controller's setpoint value can be written to, as well as other user defined parameters such as run mode and key lock state. Other advanced parameters can also be read.

Controllers can be daisy chained via RS485 to other Heatmiser modules on the network, allowing values on any of the controllers to be read and/or written using the driver.

Description	Reference	Type
Temp Format	B5	Obj/Enum: In the range 1..2 where 1=DegC, 2=DegF
Switch Differential	B6	Obj/Num
Frost Protec Enabled	B7	Obj/NoYes
Calibration Offset	W8	Obj/Num
Output Delay (mins)	B10	Obj/Num
Up Down Key Limit	B12	Obj/Num
Sensor Type	B13	Obj/Enum: In the range 1..5 where 1=BuiltIn, 2=Remote, 3=Floor, 4=BuiltFloor, 5=RemoteFloor
Optimum Start	B14	Obj/Num
Rate of Change	B15	Obj/Num
Program Mode	B16	Obj/Enum; In the range 1..2 where 1=52 Mode, 2=7 Mode
Frost Protect Temp	B17	Obj/Num; Adjustable
Set Room Temp	B18	Obj/Num; Adjustable
Floor Max Limit	B19	Obj/Num; Adjustable
Floor Max Limit Enabled	B20	Obj/NoYes; Adjustable
Unit OffOn	B21	Obj/NoYes; Adjustable
Key Locked	B22	Obj/NoYes; Adjustable
Run Mode	B23	Obj/Enum; Adjustable; In the range 1..2 where 1=Heat, 2=Frost
Holiday Hours	W24	Obj/Num; Adjustable
Temp Hold Minutes	W32	Obj/Num
Remote Air Temp	X34	Obj/Float
Floor Temp	X36	Obj/Float
Built In Air Temp	X38	Obj/Float
Error Code	B40	Obj/Num
Heating State	B41	Obj/Enum: In the range 1..2 where 1=NoHeat, 2=Heat

DT-E Room Thermostat

Object Type: *[Heatmiser v11/DTE]*

The Heatmiser DT is a thermostatic controller. The controller's setpoint value can be written to, as well as other user defined parameters such as run mode and key lock state. Other advanced parameters can also be read.

Controllers can be daisy chained via RS485 to other Heatmiser modules on the network, allowing values on any of the controllers to be read and/or written using the driver.

Description	Reference	Type
Temp Format	B5	Obj/Enum: In the range 1..2 where 1=DegC, 2=DegF
Switch Differential	B6	Obj/Num
Frost Protec Enabled	B7	Obj/NoYes
Calibration Offset	W8	Obj/Num
Output Delay (mins)	B10	Obj/Num
Up Down Key Limit	B12	Obj/Num
Sensor Type	B13	Obj/Enum: In the range 1..5 where 1=BuiltIn, 2=Remote, 3=Floor, 4=BuiltFloor, 5=RemoteFloor
Optimum Start	B14	Obj/Num
Rate of Change	B15	Obj/Num
Program Mode	B16	Obj/Enum; In the range 1..2 where 1=52 Mode, 2=7 Mode
Frost Protect Temp	B17	Obj/Num; Adjustable
Set Room Temp	B18	Obj/Num; Adjustable
Floor Max Limit	B19	Obj/Num; Adjustable
Floor Max Limit Enabled	B20	Obj/NoYes; Adjustable
Unit OffOn	B21	Obj/NoYes; Adjustable
Key Locked	B22	Obj/NoYes; Adjustable
Run Mode	B23	Obj/Enum; Adjustable; In the range 1..2 where 1=Heat, 2=Frost
Holiday Hours	W24	Obj/Num; Adjustable
Temp Hold Minutes	W32	Obj/Num
Remote Air Temp	X34	Obj/Float
Floor Temp	X36	Obj/Float
Built In Air Temp	X38	Obj/Float
Error Code	B40	Obj/Num
Heating State	B41	Obj/Enum: In the range 1..2 where 1=NoHeat, 2=Heat

PRT-N and PRT-NTS Room Thermostat

Object Type: *[Heatmiser v11/PRT]*

The Heatmiser PRT and PRT-N are thermostatic controllers, each with a built-in real time clock capable of switching its heating output depending on the current day. The controller's setpoint value can be written to, as well as other user defined parameters; such as run mode and key lock state. The output can be controlled by up to four time periods which can be set for weekend/weekdays or separate days of the week.

Controllers can be daisy chained via RS485 to other Heatmiser modules on the network, allowing values on any of the controllers to be read and/or written using the driver.

Description	Reference	Type
Temp Format	B5	Obj/Enum: In the range 1..2 where 1=DegC, 2=DegF
Switch Differential	B6	Obj/Num
Frost Protec Enabled	B7	Obj/NoYes
Calibration Offset	W8	Obj/Num
Output Delay (mins)	B10	Obj/Num
Up Down Key Limit	B12	Obj/Num
Sensor Type	B13	Obj/Enum: In the range 1..5 where 1=BuiltIn, 2=Remote, 3=Floor, 4=BuiltFloor, 5=RemoteFloor
Optimum Start	B14	Obj/Num
Rate of Change	B15	Obj/Num
Program Mode	B16	Obj/Enum; In the range 1..2 where 1=52 Mode, 2=7 Mode
Frost Protect Temp	B17	Obj/Num; Adjustable
Set Room Temp	B18	Obj/Num; Adjustable
Floor Max Limit	B19	Obj/Num; Adjustable
Floor Max Limit Enabled	B20	Obj/NoYes; Adjustable
Unit OffOn	B21	Obj/NoYes; Adjustable
Key Locked	B22	Obj/NoYes; Adjustable
Run Mode	B23	Obj/Enum; Adjustable; In the range 1..2 where 1=Heat, 2=Frost
Holiday Hours	W24	Obj/Num; Adjustable
Temp Hold Minutes	W32	Obj/Num
Remote Air Temp	X34	Obj/Float
Floor Temp	X36	Obj/Float
Built In Air Temp	X38	Obj/Float
Error Code	B40	Obj/Num
Heating State	B41	Obj/Enum: In the range 1..2 where 1=NoHeat, 2=Heat
Weekday	B43	Obj/Enum: Adjustable; In the range 1..7 where 1=Monday, 2=Tuesday, 3=Wednesday, 4=Thursday, 5=Friday, 6=Saturday, 7=Sunday
Hour	B44	Obj/Num
Minute	B45	Obj/Num
Seconds	B46	Obj/Num
Weekday Times	O47	Fixed container: (See Note 1) <i>[Heatmiser v11/Times]</i>
Weekend Times	O59	Fixed container: (See Note 1) <i>[Heatmiser v11/Times]</i>
Monday Times	O103	Fixed container: (See Note 1) <i>[Heatmiser v11/Times]</i>

Description	Reference	Type
Tuesday Times	O115	Fixed container: (See Note 1) <i>[Heatmiser v11/Times]</i>
Wednesday Times	O127	Fixed container: (See Note 1) <i>[Heatmiser v11/Times]</i>
Thursday Times	O139	Fixed container: (See Note 1) <i>[Heatmiser v11/Times]</i>
Friday Times	O151	Fixed container: (See Note 1) <i>[Heatmiser v11/Times]</i>
Saturday Times	O163	Fixed container: (See Note 1) <i>[Heatmiser v11/Times]</i>
Sunday Times	O175	Fixed container: (See Note 1) <i>[Heatmiser v11/Times]</i>

Notes

- 1 The contents of each Times object correspond to the selected weekday/weekend/day of the week object. This feature is not available in all PRT models.

PRT-EN and PRT-ENTS Floor Heating Programmable Room Thermostat

Object Type: [Heatmiser v11/P RTE]

The Heatmiser PRTE is a thermostatic controller with built-in real time clock capable of switching its heating output depending on the current day. The controller's setpoint value can be written to, along with other user defined parameters such as run mode and key lock state. Other advanced parameters can also be read.

Controllers can be daisy chained via RS485 to other Heatmiser modules on the network, allowing values on any of the controllers to be read and/or written using the driver.

Description	Reference	Type
Temp Format	B5	Obj/Enum: In the range 1..2 where 1=DegC, 2=DegF
Switch Differential	B6	Obj/Num
Frost Protec Enabled	B7	Obj/NoYes
Calibration Offset	W8	Obj/Num
Output Delay (mins)	B10	Obj/Num
Up Down Key Limit	B12	Obj/Num
Sensor Type	B13	Obj/Enum: In the range 1..5 where 1=BuiltIn, 2=Remote, 3=Floor, 4=BuiltFloor, 5=RemoteFloor
Optimum Start	B14	Obj/Num
Rate of Change	B15	Obj/Num
Program Mode	B16	Obj/Enum; In the range 1..2 where 1=52 Mode, 2=7 Mode
Frost Protect Temp	B17	Obj/Num; Adjustable
Set Room Temp	B18	Obj/Num; Adjustable
Floor Max Limit	B19	Obj/Num; Adjustable
Floor Max Limit Enabled	B20	Obj/NoYes; Adjustable
Unit OffOn	B21	Obj/NoYes; Adjustable
Key Locked	B22	Obj/NoYes; Adjustable
Run Mode	B23	Obj/Enum; Adjustable; In the range 1..2 where 1=Heat, 2=Frost
Holiday Hours	W24	Obj/Num; Adjustable
Temp Hold Minutes	W32	Obj/Num
Remote Air Temp	X34	Obj/Float
Floor Temp	X36	Obj/Float
Built In Air Temp	X38	Obj/Float
Error Code	B40	Obj/Num
Heating State	B41	Obj/Enum: In the range 1..2 where 1=NoHeat, 2=Heat
Weekday	B43	Obj/Enum: Adjustable; In the range 1..7 where 1=Monday, 2=Tuesday, 3=Wednesday, 4=Thursday, 5=Friday, 6=Saturday, 7=Sunday
Hour	B44	Obj/Num
Minute	B45	Obj/Num
Seconds	B46	Obj/Num
Weekday Times	O47	Fixed container: (See Note 1) [Heatmiser v11/Times]
Weekend Times	O59	Fixed container: (See Note 1) [Heatmiser v11/Times]
Monday Times	O103	Fixed container: (See Note 1) [Heatmiser v11/Times]

Description	Reference	Type
Tuesday Times	O115	Fixed container: (See Note 1) <i>[Heatmiser v11/Times]</i>
Wednesday Times	O127	Fixed container: (See Note 1) <i>[Heatmiser v11/Times]</i>
Thursday Times	O139	Fixed container: (See Note 1) <i>[Heatmiser v11/Times]</i>
Friday Times	O151	Fixed container: (See Note 1) <i>[Heatmiser v11/Times]</i>
Saturday Times	O163	Fixed container: (See Note 1) <i>[Heatmiser v11/Times]</i>
Sunday Times	O175	Fixed container: (See Note 1) <i>[Heatmiser v11/Times]</i>

Notes

- 1 The contents of each Times object correspond to the selected weekday/weekend/day of the week object. This feature is not available in all PRTE models.

PRTHW Programmable Thermostat with Hot Water Control

Object Type: *[Heatmiser v11/PRTHW]*

The Heatmiser PRTE is a thermostatic controller with built-in real time clock capable of switching its heating output depending on the current day. The controller's setpoint value can be written to, along with other user defined parameters such as run mode and key lock state. Other advanced parameters can also be read.

Controllers can be daisy chained via RS485 to other Heatmiser modules on the network, allowing values on any of the controllers to be read and/or written using the driver.

Description	Reference	Type
Temp Format	B5	Obj/Enum: In the range 1..2 where 1=DegC, 2=DegF
Switch Differential	B6	Obj/Num
Frost Protec Enabled	B7	Obj/NoYes
Calibration Offset	W8	Obj/Num
Output Delay (mins)	B10	Obj/Num
Up Down Key Limit	B12	Obj/Num
Sensor Type	B13	Obj/Enum: In the range 1..5 where 1=BuiltIn, 2=Remote, 3=Floor, 4=BuiltFloor, 5=RemoteFloor
Optimum Start	B14	Obj/Num
Rate of Change	B15	Obj/Num
Program Mode	B16	Obj/Enum; In the range 1..2 where 1=52 Mode, 2=7 Mode
Frost Protect Temp	B17	Obj/Num; Adjustable
Set Room Temp	B18	Obj/Num; Adjustable
Floor Max Limit	B19	Obj/Num; Adjustable
Floor Max Limit Enabled	B20	Obj/NoYes; Adjustable
Unit OffOn	B21	Obj/NoYes; Adjustable
Key Locked	B22	Obj/NoYes; Adjustable
Run Mode	B23	Obj/Enum; Adjustable; In the range 1..2 where 1=Heat, 2=Frost
Holiday Hours	W24	Obj/Num; Adjustable
Temp Hold Minutes	W32	Obj/Num
Remote Air Temp	X34	Obj/Float
Floor Temp	X36	Obj/Float
Built In Air Temp	X38	Obj/Float
Error Code	B40	Obj/Num
Heating State	B41	Obj/Enum: In the range 1..2 where 1=NoHeat, 2=Heat
Weekday	B43	Obj/Enum: Adjustable; In the range 1..7 where 1=Monday, 2=Tuesday, 3=Wednesday, 4=Thursday, 5=Friday, 6=Saturday, 7=Sunday
Hour	B44	Obj/Num
Minute	B45	Obj/Num
Seconds	B46	Obj/Num
Weekday Times	O47	Fixed container: (See Note 1) <i>[Heatmiser v11/Times]</i>
Weekend Times	O59	Fixed container: (See Note 1) <i>[Heatmiser v11/Times]</i>
Monday Times	O103	Fixed container: (See Note 1) <i>[Heatmiser v11/Times]</i>
Tuesday Times	O115	Fixed container: (See Note 1) <i>[Heatmiser v11/Times]</i>

Description	Reference	Type
Wednesday Times	O127	Fixed container: (See Note 1) <i>[Heatmiser v11/Times]</i>
Thursday Times	O139	Fixed container: (See Note 1) <i>[Heatmiser v11/Times]</i>
Friday Times	O151	Fixed container: (See Note 1) <i>[Heatmiser v11/Times]</i>
Saturday Times	O163	Fixed container: (See Note 1) <i>[Heatmiser v11/Times]</i>
Sunday Times	O175	Fixed container: (See Note 1) <i>[Heatmiser v11/Times]</i>

Notes

- 1 The contents of each Times object correspond to the selected weekday/weekend/day of the week object. This feature is not available in all PRTHW models.

TM1 One Channel Timeclock Thermostatic Controller

Object Type: *[Heatmiser v11/TM1]*

The Heatmiser TM1 is a thermostatic controller with built-in real time clock capable of switching its heating output depending on the current day. The controller's setpoint value can be written to, along with other user defined parameters such as run mode and key lock state. Other advanced parameters can also be read.

Controllers can be daisy chained via RS485 to other Heatmiser modules on the network, allowing values on any of the controllers to be read and/or written using the driver.

Description	Reference	Type
Temp Format	B5	Obj/ENum: In the range 1..2 where 1=DegC, 2=DegF
Switch Differential	B6	Obj/Num
Frost Protec Enabled	B7	Obj/NoYes
Calibration Offset	W8	Obj/Num
Output Delay (mins)	B10	Obj/Num
Up Down Key Limit	B12	Obj/Num
Sensor Type	B13	Obj/ENum: In the range 1..5 where 1=BuiltIn, 2=Remote, 3=Floor, 4=BuiltFloor, 5=RemoteFloor
Optimum Start	B14	Obj/Num
Rate of Change	B15	Obj/Num
Program Mode	B16	Obj/ENum; In the range 1..2 where 1=52 Mode, 2=7 Mode
Frost Protect Temp	B17	Obj/Num; Adjustable
Set Room Temp	B18	Obj/Num; Adjustable
Floor Max Limit	B19	Obj/Num; Adjustable
Floor Max Limit Enabled	B20	Obj/NoYes; Adjustable
Unit OffOn	B21	Obj/NoYes; Adjustable
Key Locked	B22	Obj/NoYes; Adjustable
Run Mode	B23	Obj/ENum; Adjustable; In the range 1..2 where 1=Heat, 2=Frost
Holiday Hours	W24	Obj/Num; Adjustable
Temp Hold Minutes	W32	Obj/Num
Remote Air Temp	X34	Obj/Float
Floor Temp	X36	Obj/Float
Built In Air Temp	X38	Obj/Float
Error Code	B40	Obj/Num
Heating State	B41	Obj/ENum: In the range 1..2 where 1=NoHeat, 2=Heat
Weekday	B43	Obj/ENum: Adjustable; In the range 1..7 where 1=Monday, 2=Tuesday, 3=Wednesday, 4=Thursday, 5=Friday, 6=Saturday, 7=Sunday
Hour	B44	Obj/Num
Minute	B45	Obj/Num
Seconds	B46	Obj/Num
Weekday Times	O47	Fixed container: (See Note 1) <i>[Heatmiser v11/OnOffTimes]</i>
Weekend Times	O59	Fixed container: (See Note 1) <i>[Heatmiser v11/OnOffTimes]</i>
Monday Times	O103	Fixed container: (See Note 1) <i>[Heatmiser v11/OnOffTimes]</i>
Tuesday Times	O115	Fixed container: (See Note 1) <i>[Heatmiser v11/OnOffTimes]</i>

Description	Reference	Type
Wednesday Times	O127	Fixed container: (See Note 1) <i>[Heatmiser v11/OnOffTimes]</i>
Thursday Times	O139	Fixed container: (See Note 1) <i>[Heatmiser v11/OnOffTimes]</i>
Friday Times	O151	Fixed container: (See Note 1) <i>[Heatmiser v11/OnOffTimes]</i>
Saturday Times	O163	Fixed container: (See Note 1) <i>[Heatmiser v11/OnOffTimes]</i>
Sunday Times	O175	Fixed container: (See Note 1) <i>[Heatmiser v11/OnOffTimes]</i>

Notes

- 1 The contents of each Times object correspond to the selected weekday/weekend/day of the week object. This feature is not available in all TM models.

Times

Object Type: [Heatmiser v11/Times]

The Heatmiser Times object contains time period information specific to the weekend/weekday/day of the week that has been selected.

Description	Reference	Type
Timeperiod 1 Time See Note 1	P1.T	Obj/Text: Adjustable
Timeperiod 1 Hours See Note 2	P1.TH	Obj/Num: Adjustable
Timeperiod 1 Minutes See Note 2	P1.TM	Obj/Num: Adjustable
Timeperiod 1 Setpoint See Note 2	P1.S	Obj/Num: Adjustable
Timeperiod 2 Time See Note 1	P2.T	Obj/Text: Adjustable
Timeperiod 2 Hours See Note 2	P2.TH	Obj/Num: Adjustable
Timeperiod 2 Minutes See Note 2	P2.TM	Obj/Num: Adjustable
Timeperiod 2 Setpoint See Note 2	P2.S	Obj/Num: Adjustable
Timeperiod 3 Time See Note 1	P3.T	Obj/Text: Adjustable
Timeperiod 3 Hours See Note 2	P3.TH	Obj/Num: Adjustable
Timeperiod 3 Minutes See Note 2	P3.TM	Obj/Num: Adjustable
Timeperiod 3 Setpoint See Note 2	P3.S	Obj/Num: Adjustable
Timeperiod 4 Time See Note 1	P4.T	Obj/Text: Adjustable
Timeperiod 4 Hours See Note 2	P4.TH	Obj/Num: Adjustable
Timeperiod 4 Minutes See Note 2	P4.TM	Obj/Num: Adjustable
Timeperiod 4 Setpoint See Note 2	P4.S	Obj/Num: Adjustable

Notes

- 1 The Heatmiser protocol only allows certain times and setpoints to be written to a controller. All Timeperiod – Time, and Timeperiod – Setpoint values written to a controller must be within the range:

Hours: 0...23
Minutes: 0, 30
Setpoint: 5...35

This applies to both the Time and Num object types. If a different value is written to any of these objects, all Timeperiod - Time and Timeperiod – Setpoint objects will be reset.

- 2 The Timeperiod Hours and Timeperiod Minutes objects offer alternative objects for engineering the corresponding Period Time object. These objects are hidden from the default view. They may be useful if a connected system does not support text values.

OnOffTimes

Object Type: [Heatmiser v11/OnOffTimes]

The Heatmiser OnOffTimes object allows times to be chosen, corresponding to when Heatmiser’s switch output should be activated.

Description	Reference	Type
Timeperiod 1 – Period On Time See Note 1	T1.N	Obj/Text: Adjustable
Timeperiod 1 – Period On Time Hours See Note 2	T1.NH	Obj/Num: Adjustable
Timeperiod 1 – Period On Time Minutes See Note 2	T1.NM	Obj/Num: Adjustable
Timeperiod 1 – Period Off Time See Note 2	T1.F	Obj/Num: Adjustable
Timeperiod 1 – Period Off Time Hours See Note 2	T1.FH	Obj/Num: Adjustable
Timeperiod 1 – Period Off Time Minutes See Note 2	T1.FM	Obj/Num: Adjustable
Timeperiod 2 – Period On Time See Note 1	T2.N	Obj/Text: Adjustable
Timeperiod 2 – Period On Time Hours See Note 2	T2.NH	Obj/Num: Adjustable
Timeperiod 2 – Period On Time Minutes See Note 2	T2.NM	Obj/Num: Adjustable
Timeperiod 2 – Period Off Time See Note 2	T2.F	Obj/Num: Adjustable
Timeperiod 2 – Period Off Time Hours See Note 2	T2.FH	Obj/Num: Adjustable
Timeperiod 2 – Period Off Time Minutes See Note 2	T2.FM	Obj/Num: Adjustable
Timeperiod 3 Time – Period On Time See Note 1	T3.N	Obj/Text: Adjustable
Timeperiod 3 Hours – Period On Time Hours See Note 2	T3.NH	Obj/Num: Adjustable
Timeperiod 3 – Period On Time Minutes See Note 2	T3.NM	Obj/Num: Adjustable
Timeperiod 3 – Period Off Time Hours See Note 2	T3.F	Obj/Num: Adjustable
Timeperiod 3 – Period Off Time Hours See Note 2	T3.FH	Obj/Num: Adjustable
Timeperiod 3 – Period Off Time Minutes See Note 2	T3.FM	Obj/Num: Adjustable
Timeperiod 4 – Period On Time See Note 1	T4.N	Obj/Text: Adjustable
Timeperiod 4 – Period On Time Hours See Note 2	T4.NH	Obj/Num: Adjustable
Timeperiod 4 – Period On Time Minutes See Note 2	T4.NM	Obj/Num: Adjustable
Timeperiod 4 – Period Off Time See Note 2	T4.F	Obj/Num: Adjustable
Timeperiod 4 – Period Off Time Hours See Note 2	T4.FH	Obj/Num: Adjustable
Timeperiod 4 – Period Off Time Minutes See Note 2	T4.FM	Obj/Num: Adjustable

Notes

- 1 The Heatmiser protocol only allows certain times and setpoints to be written to a controller. All Timeperiod – Time, and Timeperiod – Setpoint values written to a controller must be within the range:

Hours: 0..23

Minutes: 0, 30

This applies to both the Time and Num object types. If a different value is written to any of these objects, all Timeperiod - Time and Timeperiod – Setpoint objects will be reset.

- 2 The Hours and Minutes objects offer alternatives for engineering the corresponding Period Time object. These objects are hidden from the default view. They may be useful if a connected system does not support time-format values.

Driver Versions

Version	Build Date	Details
1.0	15/5/2012	Driver released
1.1	28/8/2013	Modified protocol. Driver now sends data in chunks, rather than individual bytes
1.1	20/6/2016	Device LED on Commander now activated

Next Steps...

If you require help, contact support on 01273 694422 or visit www.northbt.com/support



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