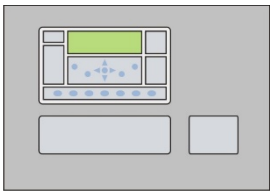
The Kentec Driver



The Kentec driver connects to the Kentec Syncro range of fire detection panels. Available for Commander and ObSys.

This document relates to Kentec driver version 1.4

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

Contents

Compatibility with the Kentec System

The Kentec driver allows North to interface with a Kentec Syncro fire detection system.

The driver connects to a Kentec fire control panel (Fig. 1), and can communicate with a network of up to 64 panels.

The KentecTaktis driver is also available, which interfaces with the Kentec Taktis range.

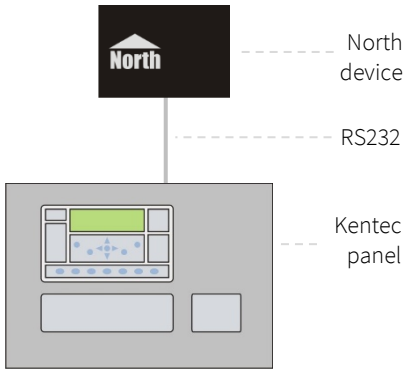


Fig. 1 North to Kentec panel

Equipment

Kentec Electronics fire control panels compatible with the driver include:

- Syncro series
- Syncro AS series

Both Apollo and Hochiki loop devices are supported.

Values

Depending on the series of fire control panel, the driver can typically access the following values:

- Panel information
- Reset panel
- Sounders
- Evacuate
- Time
- System state
- Panel state
- Loop state
- Loop device state
- Sub-address state
- Zone state

States for fire, pre-alarm, fault, and isolation conditions are available.

Fire control panels can send alarms to the Kentec driver.

Prerequisites

The Kentec panel should be fitted with software version 5.80 or later.

In order for the Syncro panel to send heartbeats and some cleared events, the connected panel should have the ‘Graphics System’ option enabled. Enable this option using the Kentec Loop Explorer software; from the Panel Data tab.

Kentec recommend that a panel printer should not be used at the same time as the driver. The printer can be disabled from the panel options menu.

On a PC, an optical RS232 isolator should be used. Without an isolator, the panel may indicate an earth fault condition. Alternatively, earth faults can be disabled from the panel.

Driver Operation

Events from the panel

The driver connects to a Kentec Syncro fire control panel, and listens for change-of-state events. These events are processed by the driver to maintain a database of active alarm states in the fire system.

On starting the interface, the driver synchronises its database with the Kentec system by requesting the current active alarms. You can also force a re-synchronisation at any time by using the Resync Interface object (RST).

The driver monitors communication to the panel. If communications are lost, then the fault is reported. Once regained, the driver re-synchronises its database with the panel and operation resumes.

Alarms

When an event is received from the Kentec panel, the driver sends this as a North-format alarm to the device's alarm processing.

Reading from the Kentec System

On reading an object from the Kentec System, the driver typically responds with the state from its database.

The panel may not send isolation events for sub-devices or, when a zone is isolated, for devices. So when reading a loop device or sub-device object that includes the isolation state, and the database has no active events for this object, the driver will request its isolation state from the panel.

Commands to the Kentec System

Commands can be sent to a Kentec panel. These can be to: silence or reset active events on the system; or isolate a zone, loop device or sub-device.

Heartbeats

When the connected Kentec panel has 'Graphics System' enabled, heartbeat messages to check communication are sent to the driver. The driver object Panel Sending Heartbeats (HB) reports if these are detected.

The Graphics System option may also enable sending of additional cleared events. We are unsure what cleared events are sent, so it is recommended this option is enabled.

Using the Driver

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

Making the Cable

Using the RS232 cable specification (Fig. 2), connect the North device COM port to the Kentec Syncro panel PC port. Connector types at each end of the cable are shown.

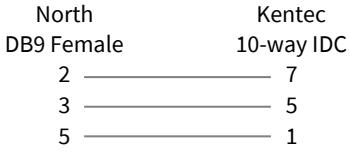


Fig 2 North to Kentec cable

The maximum RS232 cable length is 15m.

Cables are available from North, order code CABLE/KENTEC.

Starting the Interface

To start an interface using the Kentec driver, follow these steps:

- → **Start Engineering** your North device using ObSys
- → Navigate to **Configuration, Interfaces,** and set an unused **Interface** to 'Kentec' to start the particular interface
- → Navigate to the top-level of your North device and re-scan it

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

Checking Communications

The **Kentec Setup** object contains **Comms Online** (DS) and **Panel Sending Heartbeats** (HB) objects. These will change accordingly when communications to the panel is established, and when the panel starts sending heartbeat messages.

Alarms

When the Kentec system reports an event to the driver, the driver sends a North-format alarm to the device's alarm processing.

Format

North-format alarms contain six text fields. The Kentec driver places the following information into these fields:

System – copied from System Label object (DL) within driver setup

Point – see Point Field section below

Condition – see Condition Field section below

Priority – see Priority Field section below

Date & Time – from connected panel or North device. Selected by the Alarm text object (AT) within driver setup.

Examples

System	Point	Condition	Priority	Date	Time
Kentec System	Panel 1 Loop 1 Dev 2 Zone 5	Isolated Device	2	19/03/13	14:29:48
Kentec System	Panel 1 Loop 1 Dev 2 Zone 5	Isolated Device Cleared	2	19/03/13	14:35:12
Kentec System	Panel 12 Loop 1 Dev 12 Zone 12	Internal Fault	3	19/03/12	14:26:26
Kentec System	Panel 2 Zone 2	Monitored Output Fault	3	19/03/12	14:26:26
Kentec System	Panel 2 Loop 1 Dev 1 Zone 16	Fire	1	10/03/13	13:06:59
Kentec System	Panel 2	Reset	3	10/03/13	13:07:35
Kentec System	Panel 2 Loop 1 Dev 1 Zone 16	Fire Cleared	1	10/03/13	13:07:35
Kentec System	Panel 1 Loop 1 Dev 3.14	Input Activated	3	06/02/13	10:12:43
Kentec System	Panel 1 Loop 1 Dev 3.14	Input Activated Cleared	3	06/02/13	10:16:19
Kentec System	Panel 1	Buzzer Silenced	4	06/02/13	10:16:19

Point Field

Selected by the Alarm Text object (AT) within driver setup.

If the panel/loop/device reference is selected, the format can be:

System

Panel *a*

Panel *a* Loop *b*

Panel *a* Loop *b* Dev *c.c* Zone *d*

System Zone *d*

Otherwise, this field contains:

panel label + *device location* from the panel (when available).

Condition Field

The following alarm conditions can be sent by the driver. When the panel clears an alarm, then 'Cleared' is appended to the field.

Alarms Re-sounding	Fire Drill Active	Optical Element Fault
Alarms Silenced	General Isolation	Output 1 Closed Circuit
All Sounders Isolated	Heat Element Fault	Output 1 Open Circuit
Aux 24V Fuse Fault	I/O Module Not Fitted	Output 2 Closed Circuit
Battery Disconnected	Incorrect Loop Protocol	Output 2 Open Circuit
Battery Voltage High	Input Activated	Output Closed
Battery Voltage Low	Input Closed Circuit	Output Open
Buzzer Isolated	Input Open Circuit	Panel Input Isolated
Buzzer Silenced	Internal Fault	Panel Output Isolated
C&E Isolated	Isolated Device	Power Fail
Calibration Error	Isolated Immediate Output	Pre-Alarm
Calibration Failed	Isolated Loop	Printer Fault
Cause/Effect Active	Isolated Zone	Printer Isolated
Charger Fault	Loop Closed Circuit	RAM Fault
Communications Lost	Loop Not Fitted	Reset
Communications Regained	Loop Open Circuit	ROM Fault
Day/Night Isolation	Loop Wiring Fault	Self Test Fail
Detector Removed	Mains Fail	Slave Closed Circuit
Device Battery Low	Maintenance Fault	Slave Line 1 Fault
Device Data Fault	Modem Fault	Slave Line 2 Fault
Device External Interference	Module PSU Fault	Slave Open Circuit
Device Initialising	Monitored Output Fault	System Initialising
Device Isolator Open	Network Comms Fault	Test Mode
Device Missing	Network Comms Timeout	Unexpected Device
Device Tamper Fault	Network Open/Closed Circuit	Unexpected I/O Module
Double Address		Unexpected Loop
Earth Fault	OEM Device Mismatch	Unknown Device
Earth Fault Isolated	Optical & Heat Element Fault	Wrong Device Type

Priority Field

The priority number depends on the event type from the panel:

1 – fire and evacuate events

2 – pre-alarm, security, isolation, and technical events

3 – alert, fault, test, and cause & effect events

4 – status events

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 Kentec System (S1) contains Panel 1 (P1), which contains Loop 2 (L2), which has Device 22 (D22), which contains an alarm state (C). Therefore, the complete object reference will be 'S1.P1.L2.D22.C'.

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.P1.L2.D22.C) – therefore the complete object reference is 'IP.CDIP.S1.P1.L2.D22.C'.

Device Top-Level Objects

When an interface is started using the Kentec 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
Kentec Setup Set up the Kentec driver, started on interface *c* (*c* is the interface number)	M*c*	Fixed Container: On the Commander platform this will be *[CDM v20\Kentec v14]* On the ObSys platforms this will be *[OSM v20\Kentec v14]*
Kentec System Access Kentec system connected to interface *c* (*c* is the interface number)	S*c*	Variable Container: *[Kentec v14]*

Kentec Driver Setup

Object Type: *[OSM v20\Kentec v14]*
Object Type: *[CDM v20\Kentec v14]*

The Kentec driver contains the following objects:

Description	Reference	Type
COM Port	RS.COM	Obj\Num: 1…8; Adjustable
System Label Label displayed when scanning the system	DL	Obj\Text: 20 Chars; Adjustable
Comms Online Indicates whether communication is established with the panel	DS	Obj\NoYes
Panel Sending Heartbeats Indicates whether heartbeat signals are being received from the Kentec panel	HB	Obj\NoYes If 'No' indicated, check panel configuration (see *Prerequisites* section)
Alarm Text & Date Selects source of the alarm message condition and date fields	AT	Obj\Enum: 0…3; Adjustable See note 1
Event Storage Available Each event from the system must be remembered by the driver. **If no storage is available for a new event, the driver will not be able to remember it.**	SC	Obj\Num: 0…800
Resync Interface Clears the internal database and re-establishes communication with the Kentec system	RST	Obj\NoYes; Adjustable
Interface Initialized Indicates if the driver has finished requesting the configuration of all panels	IS	Obj\NoYes
Filter Events Stop the driver listening for particular event types or panels. This provides more event storage for other event types	FE	Fixed Container: On the Commander platform this will be *[CDM v20\Kentec v14\Filter]* On the ObSys platforms this will be *[OSM v20\Kentec v14\Filter]*

Notes

1 The Alarm Text & Date object selects the source of the alarm message condition and date/time fields. Condition text can either be in a fixed format containing the panel/loop/device reference, or contain the location text from the Syncro panel. Refer to the *Alarms* section for more information.

Value	Condition Text Source	Date/Time Source
0	Panel/Loop/Device reference	Panel
1	Panel/Loop/Device reference	Interface (from North device)
2	Use label from panel	Panel
3	Use label from panel	Interface (from North device)

For cleared events, the time is always from the North device.

Kentec Driver Filter Events

Object Type: *[OSM v20\Kentec v14\Filter]*
Object Type: *[CDM v20\Kentec v14\Filter]*

Each event from the Kentec system must be remembered by the driver. On a large system with more than 800 active events at any one time, use this object to select which event types are ignored by the driver – isolation, fault, etc.

If more event storage is required, use multiple interface connections to the system, with each Kentec driver configured to store events for a particular range of panels.

Description	Reference	Type
Ignore Isolation events Enable to ignore isolation events from the system. This provides more event storage for other event conditions	I.C1	Obj\NoYes; Adjustable
Ignore Fault events Enable to ignore fault events from the system	I.C2	Obj\NoYes; Adjustable
Ignore Pre-Alarm events Enable to ignore pre-alarm events from the system	I.C3	Obj\NoYes; Adjustable
Ignore Fire events Enable to ignore fire events from the system	I.C4	Obj\NoYes; Adjustable
Store events from panel (start) Lowest address of network interface panel to store events from	PS	Obj\Num: 0…64; Adjustable
Store events from panel (end) Highest address of network interface panel to store events from	PE	Obj\Num: 1…64; Adjustable

Kentec System

Object Type: *[Kentec v14]*

The Kentec system is a network of Kentec fire detection panels. It contains objects to view the status of the whole system (P) and objects to access information from each connected panel (P*x*).

The Kentec network will contain one or more panels.

Description	Reference	Type
Zone & System Summary	P	Fixed container: *[Kentec v14\System]*
Panel Label *Panel Label* is the name of panel *x*. *x* can be in the range 1…64	P*x*	Fixed container, can be one of the following types: Repeater panel *[Kentec v14\Panel0]* One loop panel *[Kentec v14\Panel1]* Two loop panel *[Kentec v14\Panel2]* Four loop panel *[Kentec v14\Panel4]* Note: an eight loop panel is presented as two panels with four loops

Zone and Summary Information

Object Type: *[Kentec v14\System]*

The Kentec Zone and System Summary object contains the zones and network-wide status for the Kentec system.

Description	Reference	Type
System Alarm State	C	Obj\ENum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire
System OK	C0	Obj\NoYes
Isolations	C1	Obj\NoYes
In Fault	C2	Obj\NoYes
In Pre-Alarm	C3	Obj\NoYes
In Fire	C4	Obj\NoYes
Zone *x* The zone number, x, is in the range 0…500	Z*x*	Fixed container: *[Kentec v14\Zone]*

Repeater Panel

Object Type: *[Kentec v14\Panel0]*

A Kentec Syncro repeater panel contains the following objects:

Description	Reference	Type
Panel Label	L	Obj\Text: 15 chars.
Information Panel-specific information	I	Fixed container: *[Kentec v14\Info]*
Time The panel's own time and occupancy periods	T	Fixed container: *[Kentec v14\Time]*
Commands Contains objects for setting the panel into evacuate, silencing or enabling sounders and resetting the panel.	A	Fixed container: *[Kentec v14\Actions]*
Panel Alarm State	C	Obj\ENum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire
Panel OK	C0	Obj\NoYes
Isolations	C1	Obj\NoYes
Faults	C2	Obj\NoYes
Pre-Alarm	C3	Obj\NoYes
Fire	C4	Obj\NoYes

Kentec One-Loop Panel

Object Type: *[Kentec v14\Panel1]*

A Kentec Syncro single loop panel contains the following objects:

Description	Reference	Type
Panel Label	L	Obj\Text: 15 chars.
Information Panel-specific information	I	Fixed container: *[Kentec v14\Info]*
Time The panel's own time and occupancy periods	T	Fixed container: *[Kentec v14\Time]*
Commands Contains objects for setting the panel into evacuate, silencing or enabling sounders and resetting the panel.	A	Fixed container: *[Kentec v14\Actions]*
Panel Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire
Panel OK	C0	Obj\NoYes
Isolations	C1	Obj\NoYes
Faults	C2	Obj\NoYes
Pre-Alarm	C3	Obj\NoYes
Fire	C4	Obj\NoYes
Loop Label The *loop label* is the loop's label as configured in Kentec. The loop number, x, is in the range 0…1	L*x*	Fixed container: *[Kentec v14\Loop]*

Kentec Two-Loop Panel

Object Type: *[Kentec v14\Panel2]*

A Kentec Syncro two loop Panel contains the following objects:

Description	Reference	Type
Panel Label	L	Obj\Text: 15 chars.
Information Panel-specific information	I	Fixed container: *[Kentec v14\Info]*
Time The panel's own time and occupancy periods	T	Fixed container: *[Kentec v14\Time]*
Commands Contains objects for setting the panel into evacuate, silencing or enabling sounders and resetting the panel.	A	Fixed container: *[Kentec v14\Actions]*
Panel Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire
Panel OK	C0	Obj\NoYes
Isolations	C1	Obj\NoYes
Faults	C2	Obj\NoYes
Pre-Alarm	C3	Obj\NoYes
Fire	C4	Obj\NoYes
Loop Label The *loop label* is the loop's label as configured in Kentec. The loop number, x, is in the range 0…2	L*x*	Fixed container: *[Kentec v14\Loop]*

Kentec Four-Loop Panel

Object Type: *[Kentec v14\Panel4]*

A Kentec Syncro four loop panel contains the following objects:

Description	Reference	Type
Panel Label	L	Obj\Text: 15 chars.
Information Panel-specific information	I	Fixed container: *[Kentec v14\Info]*
Time The panel's own time and occupancy periods	T	Fixed container: *[Kentec v14\Time]*
Commands Contains objects for setting the panel into evacuate, silencing or enabling sounders and resetting the panel.	A	Fixed container: *[Kentec v14\Actions]*
Panel Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire
Panel OK	C0	Obj\NoYes
Isolations	C1	Obj\NoYes
Faults	C2	Obj\NoYes
Pre-Alarm	C3	Obj\NoYes
Fire	C4	Obj\NoYes
Loop Label The *loop label* is the loop's label as configured in Kentec. The loop number, x, is in the range 0…4.	L*x*	Fixed container: *[Kentec v14\Loop]*

Zone

Object Type: *[Kentec v14\Zone]*

A Kentec zone contains the following objects:

Description	Reference	Type
Zone Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Zone OK	C0	Obj\NoYes
Zone Devices Isolated Indicates whether devices in this zone are isolated. Can be written to in order to isolate or de-isolate a zone	C1	Obj\NoYes; Adjustable
Zone Devices in Fault	C2	Obj\NoYes
Zone Devices in Pre-Alarm	C3	Obj\NoYes
Zone Devices in Fire	C4	Obj\NoYes

Information

Object Type: *[Kentec v14\Info]*

The panel information object contains the following objects:

Description	Reference	Type
Panel Label	L	Obj\Text: 15 chars.
Supplier Label	SL	Obj\Text
Software Version The software version of the Kentec panel	SV	Obj\Text

Time

Object Type: *[Kentec v14\Time]*

The Kentec time object contains the following objects:

Description	Reference	Type
Set Panel Date & Time	TIME	Obj\DateTime; Adjustable only
Sunday Occupation	D1	Obj\Times; 1 Period
Monday Occupation	D2	Obj\Times; 1 Period
Tuesday Occupation	D3	Obj\Times; 1 Period
Wednesday Occupation	D4	Obj\Times; 1 Period
Thursday Occupation	D5	Obj\Times; 1 Period
Friday Occupation	D6	Obj\Times; 1 Period
Saturday Occupation	D7	Obj\Times; 1 Period

Commands

Object Type: *[Kentec v14\Actions]*

The Kentec panel commands object contains the following objects:

Description	Reference	Type
Reset Panel Performs a reset on the panel	R	Obj\NoYes; Adjustable only
Sounders Disables or enables sounders	S	Obj\NoYes; Adjustable
Evacuate Sets the panel into evacuation mode	E	Obj\NoYes; Adjustable only

Loop

Object Type: *[Kentec v14\Loop]*

A Kentec panel loop contains the following objects. Loop 0 is used to reference on-panel I/O.

Description	Reference	Type
Label When the panel is configured with a loop offset, this indicates the actual loop number	L	Obj\Text
Loop Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire
Loop OK	C0	Obj\NoYes
Loop Devices Isolated	C1	Obj\NoYes
Loop Devices in Fault	C2	Obj\NoYes
Loop Devices in Pre-Alarm	C3	Obj\NoYes
Loop Devices in Fire	C4	Obj\NoYes
Device *x* The device address, *x,* is in the range 0…254. Hochiki devices are in the range 0…126, with addressable bases using device+127. Apollo devices in the range 0…125, with addressable bases using device+126. Loop 0 devices are on-panel I/O boards, with device (board) numbers in the range 1…32	D*x*	Variable container, can be one of the following: **Apollo devices** S90 Shop Monitor Unit *[Kentec v14\Apollo\0]* XP Loop Sounder *[Kentec v14\Apollo\1]* S90 3 Channel Output *[Kentec v14\Apollo\2]* S90 Ionisation Unit *[Kentec v14\Apollo\3]* S90 Zone Monitor Unit *[Kentec v14\Apollo\4]* S90 Photoelectric Unit *[Kentec v14\Apollo\5]* S90 Heat Sensor *[Kentec v14\Apollo\6]* S90 Call Point *[Kentec v14\Apollo\7]* S90 1 Channel Output Unit *[Kentec v14\Apollo\34]* S90 Control Unit Monitor *[Kentec v14\Apollo\36]* S90 Call Point Monitor *[Kentec v14\Apollo\39]* S90 Sounder CCT Module *[Kentec v14\Apollo\65]* S90 Switch Monitor Unit *[Kentec v14\Apollo\66]* S90 Sounder Control Unit *[Kentec v14\Apollo\129]* XP 3 Channel Input Output Unit *[Kentec v14\Apollo\130]* XP Ionisation Unit *[Kentec v14\Apollo\131]* XP Zone Monitor Units *[Kentec v14\Apollo\132]* XP Photoelectric Unit *[Kentec v14\Apollo\133]* XP Heat Sensor Unit *[Kentec v14\Apollo\134]* XP Switch Monitor Unit *[Kentec v14\Apollo\140]* XP Intelligent Beam Unit *[Kentec v14\Apollo\141]* XP High Temperature Sensor *[Kentec v14\Apollo\142]* XP Flame Detector *[Kentec v14\Apollo\149]* XP Multi Photo Unit *[Kentec v14\Apollo\157]* XP Call Point *[Kentec v14\Apollo\159]* XP Output Unit *[Kentec v14\Apollo\162]* D Ionisation Unit *[Kentec v14\Apollo\163]* D Photoelectric Unit *[Kentec v14\Apollo\165]* D Heat Sensor Unit *[Kentec v14\Apollo\166]* D Gaseous Fire Sensor *[Kentec v14\Apollo\171]* XP Switch Monitor Plus *[Kentec v14\Apollo\172]* D SBB Base Sounder *[Kentec v14\Apollo\177]* D Multi Photo Unit *[Kentec v14\Apollo\181]* D Dual Sensor *[Kentec v14\Apollo\189]* D Call Point *[Kentec v14\Apollo\191]* XP Radio Sensor *[Kentec v14\Apollo\196]* D Gaseous Fire Sensor *[Kentec v14\Apollo\197]* D Gaseous Fire Sensor *[Kentec v14\Apollo\204]* D Gaseous Fire Sensor *[Kentec v14\Apollo\223]* **Hochiki Devices**

Description	Reference	Type
		Call Point *[Kentec v14\Hochiki\0]* Base Module *[Kentec v14\Hochiki\18]* Base Master *[Kentec v14\Hochiki\20]* Mini Zone *[Kentec v14\Hochiki\21]* Loops Controller *[Kentec v14\Hochiki\25]* Switch Module *[Kentec v14\Hochiki\57]* Loop Beacon *[Kentec v14\Hochiki\65]* ADR Remote IND *[Kentec v14\Hochiki\66]* Loop Sounder *[Kentec v14\Hochiki\94]* Bell Module *[Kentec v14\Hochiki\120]* Multi IO Module *[Kentec v14\Hochiki\122]* Output Module *[Kentec v14\Hochiki\124]* Single IO Module *[Kentec v14\Hochiki\125]* POM Output Module *[Kentec v14\Hochiki\126]* Photoelectric *[Kentec v14\Hochiki\136]* Heat Sensor *[Kentec v14\Hochiki\152]* Heat Sensor ACB *[Kentec v14\Hochiki\153]* Ionisation Unit *[Kentec v14\Hochiki\168]* Multi Sensor *[Kentec v14\Hochiki\216]* **Loop 0 Devices** I/O Board *[Kentec v14\IOBoard]*

S90 Shop Monitor Unit

Object Type: *[Kentec v14\Apollo\0]*

The Apollo S90 Shop Monitor Unit contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates if this device or sub-addresses are isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes
Sub-address *x* The sub-address number, x, is in the range 1…3	S*x*	Fixed Container: *[Kentec v14\SubAddr]*
Device Alarm State (excluding isolation) Indicates the most important event present in the device, excluding isolation. Use this object when a faster response time is required. The isolation state can be obtained by reading object C1.	Q	Obj\Enum: 0…4; Where: 0=Ok, 2=Fault, 3=Pre-Alarm, 4=Fire.

XP Loop Sounder

Object Type: *[Kentec v14\Apollo\1]*

The Apollo XP Loop Sounder contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

S90 3 Channel Output

Object Type: *[Kentec v14\Apollo\2]*

The Apollo S90 3 Channel Output contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates if this device or sub-addresses are isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes
Sub-address *x* The sub-address number, x, is in the range 1…6	S*x*	Fixed Container: *[Kentec v14\SubAddr]*

S90 Ionisation Unit

Object Type: *[Kentec v14\Apollo\3]*

The Apollo S90 Ionisation Unit contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

S90 Zone Monitor Unit

Object Type: *[Kentec v14\Apollo\4]*

The Apollo S90 Zone Monitor Unit contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

S90 Photoelectric Unit

Object Type: *[Kentec v14\Apollo\5]*

The Apollo S90 Photoelectric Unit contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

S90 Heat Sensor

Object Type: *[Kentec v14\Apollo\6]*

The Apollo S90 Heat Sensor contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

S90 Call Point

Object Type: *[Kentec v14\Apollo\7]*

The Apollo S90 Call Point contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

S90 1 Channel Output Unit

Object Type: *[Kentec v14\Apollo\34]*

The Apollo S90 1 Channel Output Unit contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates if this device or sub-addresses are isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes
Sub-address *x* The sub-address number, x, is in the range 1…2	S*x*	Fixed Container: *[Kentec v14\SubAddr]*

S90 Control Unit Monitor

Object Type: *[Kentec v14\Apollo\36]*

The Apollo S90 Control Unit Monitor contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

S90 Call Point Monitor

Object Type: *[Kentec v14\Apollo\39]*

The Apollo S90 Call Point Monitor contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

S90 Sounder CCT Controller

Object Type: *[Kentec v14\Apollo\65]*

The Apollo S90 Sounder CCT Controller contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

S90 Switch Monitor Unit

Object Type: *[Kentec v14\Apollo\66]*

The Apollo S90 Switch Monitor Unit contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates if this device or sub-address is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes
Sub-address 1	S1	Fixed Container: *[Kentec v14\SubAddr]*

S90 Sounder Control Unit

Object Type: *[Kentec v14\Apollo\129]*

The Apollo S90 Sounder Control Unit contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

XP 3 Channel Input Output Unit

Object Type: *[Kentec v14\Apollo\130]*

The Apollo XP 3 Channel Input Output Unit contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

XP Ionisation Unit

Object Type: *[Kentec v14\Apollo\131]*

The Apollo XP Ionisation Unit contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

XP Zone Monitor Units

Object Type: *[Kentec v14\Apollo\132]*

The Apollo XP Zone Monitor Unit contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

XP Photoelectric Unit

Object Type: *[Kentec v14\Apollo\133]*

The Apollo XP Photoelectric Unit contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

XP Heat Sensor Unit

Object Type: *[Kentec v14\Apollo\134]*

The Apollo XP Heat Sensor Unit contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

XP Switch Monitor Unit

Object Type: *[Kentec v14\Apollo\140]*

The Apollo XP Switch Monitor Unit contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates if this device or sub-address is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes
Sub-address 1	S1	Fixed Container: *[Kentec v14\SubAddr]*

XP Intelligent Beam Unit

Object Type: *[Kentec v14\Apollo\141]*

The Apollo XP Intelligent Beam contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

XP High Temperature Sensor

Object Type: *[Kentec v14\Apollo\142]*

The Apollo XP High Temperature Sensor contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

XP Flame Detector

Object Type: *[Kentec v14\Apollo\149]*

The Apollo XP Flame Detector contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

XP Multi Photo Unit

Object Type: *[Kentec v14\Apollo\157]*

The Apollo XP Multi Photo Unit contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

XP Call Point

Object Type: *[Kentec v14\Apollo\159]*

The Apollo XP Call Point contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

XP Output Unit

Object Type: *[Kentec v14\Apollo\162]*

The Apollo XP Output Unit contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates if this device or sub-address is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes
Sub-address 1	S1	Fixed Container: *[Kentec v14\SubAddr]*

D Ionisation Unit

Object Type: *[Kentec v14\Apollo\163]*

The Apollo D Ionisation Unit contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

D Photoelectric Unit

Object Type: *[Kentec v14\Apollo\165]*

The Apollo D Photoelectric Unit contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

D Heat Sensor Unit

Object Type: *[Kentec v14\Apollo\166]*

The Apollo D Heat Sensor Unit contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

D Gaseous Fire Sensor

Object Type: *[Kentec v14\Apollo\171]*

The Apollo D Gaseous Fire Sensor contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

XP Switch Monitor Plus

Object Type: *[Kentec v14\Apollo\172]*

The Apollo XP Switch Monitor Plus contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates if this device or sub-addresses are isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes
Sub-address 1	S1	Fixed Container: *[Kentec v14\SubAddr]*
Sub-address 2	S2	Fixed Container: *[Kentec v14\SubAddr]*

D SBB Base Sounder

Object Type: *[Kentec v14\Apollo\177]*

The D SBB Base Sounder contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates if this device or sub-address is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes
Sub-address 1	S1	Fixed Container: *[Kentec v14\SubAddr]*

D Multi Photo Unit

Object Type: *[Kentec v14\Apollo\181]*

The Multi Photo Unit contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

D Dual Sensor

Object Type: *[Kentec v14\Apollo\189]*

The D Dual Sensor contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

D Call Point

Object Type: *[Kentec v14\Apollo\191]*

The D Call Point contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

XP Radio Sensor

Object Type: *[Kentec v14\Apollo\196]*

The Apollo XP Radio Sensor contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

XP Beam

Object Type: *[Kentec v14\Apollo\197]*

The Apollo XP Beam contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

XP Mini Switch Monitor

Object Type: *[Kentec v14\Apollo\204]*

The Apollo XP Mini Switch Monitor contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates if this device or sub-address is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes
Sub-address 1	S1	Fixed Container: *[Kentec v14\SubAddr]*

XP Mini Switch Interrupt

Object Type: *[Kentec v14\Apollo\223]*

The Apollo XP Mini Switch Interrupt contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates if this device or sub-address is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes
Sub Address 1	S1	Fixed Container: *[Kentec v14\SubAddr]*

Hochiki Call Point

Object Type: *[Kentec v14\Hochiki\0]*

The Hochiki Call Point contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

Hochiki Base Module

Object Type: *[Kentec v14\Hochiki\18]*

The Hochiki Base Module contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

Hochiki Base Master

Object Type: *[Kentec v14\Hochiki\20]*

The Hochiki Base Master contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes

Hochiki Mini Zone

Object Type: *[Kentec v14\Hochiki\21]*

The Hochiki Base Module contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

Hochiki Loops Controller

Object Type: *[Kentec v14\Hochiki\25]*

The Hochiki Loops Controller contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

Hochiki Switch Module

Object Type: *[Kentec v14\Hochiki\57]*

The Hochiki Switch Module contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates if this device or sub-addresses are isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes
Sub-address *x* *x* is in the range 1..2	S*x*	Fixed Container: *[Kentec v14\SubAddr]*

Hochiki Loop Beacon

Object Type: *[Kentec v14\Hochiki\65]*

The Hochiki Loop Beacon contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

Hochiki ADR Remote IND

Object Type: *[Kentec v14\Hochiki\66]*

The Hochiki ADR Remote IND contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

Hochiki Loop Sounder

Object Type: *[Kentec v14\Hochiki\94]*

The Hochiki Loop Sounder contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

Hochiki Bell Module

Object Type: *[Kentec v14\Hochiki\120]*

The Hochiki Bell Module contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates if this device or sub-addresses are isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes
Sub-address *x* *x* is in the range 1…3	S*x*	Fixed Container: *[Kentec v14\SubAddr]*

Hochiki Multi IO Unit

Object Type: *[Kentec v14\Hochiki\122]*

The Hochiki Multi IO Unit contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates if this device or sub-addresses are isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes
Sub-address *x* *x* is in the range 1…8	S*x*	Fixed Container: *[Kentec v14\SubAddr]*

Hochiki Output Module

Object Type: *[Kentec v14\Hochiki\124]*

The Hochiki Output Module contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates if this device or sub-addresses are isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes
Sub-address *x* *x* is in the range 1…3	S*x*	Fixed Container: *[Kentec v14\SubAddr]*

Hochiki Single IO Module

Object Type: *[Kentec v14\Hochiki\125]*

The Hochiki Single IO Module contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates if this device or sub-addresses are isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes
Sub-address *x* *x* is in the range 1…2	S*x*	Fixed Container: *[Kentec v14\SubAddr]*

Hochiki POM Output Module

Object Type: *[Kentec v14\Hochiki\126]*

The Hochiki POM Module contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates if this device or sub-addresses are isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes
Sub-address *x* *x* is in the range 1…3	S*x*	Fixed Container: *[Kentec v14\SubAddr]*

Hochiki Photoelectric

Object Type: *[Kentec v14\Hochiki\136]*

The Hochiki Photoelectric Sensor contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

Hochiki Heat Sensor

Object Type: *[Kentec v14\Hochiki\152]*

The Hochiki Heat Sensor contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

Hochiki Heat Sensor ACB

Object Type: *[Kentec v14\Hochiki\153]*

The Hochiki Heat Sensor ACB contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

Hochiki Ionisation Unit

Object Type: *[Kentec v14\Hochiki\168]*

The Hochiki Ionisation Unit contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

Hochiki Multi Sensor

Object Type: *[Kentec v14\Hochiki\216]*

The Hochiki Multi Sensor contains the following objects:

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates whether this device is isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes

I/O Board

Object Type: *[Kentec v14\IOBoard]*

An on-panel I/O board contains up to 16 input channels, referenced using the sub-address.

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Device OK	C0	Obj\NoYes
Device Isolated Indicates if this device or sub-addresses are isolated. Can be written to in order to isolate or de-isolate the device	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes
Sub-address *x* The sub-address or input channel number, x, is in the range 1…16	S*x*	Fixed Container: *[Kentec v14\SubAddr]*

Sub-address

Object Type: *[Kentec v14\SubAddr]*

A Kentec sub-address contains the following objects:

Description	Reference	Type
Alarm State Indicates the most important event present in the device's sub-address. Adjust to isolate or de-isolate	C	Obj\Enum: 0…4; Where: 0=Ok, 1=Isolated, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjustable: 0=Deisolate, 1=Isolate
Sub-address OK	C0	Obj\NoYes
Sub-address Isolated Indicates whether this sub-address is isolated. Can be written to in order to isolate or de-isolate	C1	Obj\NoYes; Adjustable
Sub-address in Fault	C2	Obj\NoYes
Sub-address in Pre-Alarm Can also cover technical and security alarms where applicable	C3	Obj\NoYes
Sub-address in Fire	C4	Obj\NoYes
Alarm State (excluding isolation) Indicates the most important event present in the device's sub-address, excluding isolation. Use this object when a faster response time is required. The isolation state can be obtained by reading object C1.	Q	Obj\Enum: 0…4; Where: 0=Ok, 2=Fault, 3=Pre-Alarm, 4=Fire.

Driver Versions

Version	Build Date	Details
1.0	16/6/2007	Driver released
1.1	9/10/2008	Added new state objects C, F
1.2	1/7/2010	Implemented new protocol commands and register for events. Now support device isolations Now support Input Activated events
1.2	13/2/2013	Improved initialization Now support loop offset panel configurations
1.3	17/2/2014	New driver object MA, to speed up initialization. Now support panel I/O boards
1.3	03/12/2014	Request device isolation from panel to provide updated status if zone is isolated. Improved detection of panel initializing after watchdog reset. Set TIME object to update panel current time. Read not available. Previously this object accessed occupancy last change timestamp.
1.4	22/02/2018	Added driver objects to filter events based on a panel range (replacing maximum address object). Added driver objects to filter events based on type – ignore isolations, etc. Modified system .C objects to be adjustable setting isolation where applicable.
1.4	10/08/2020	Added .Q object to read device status, excluding isolation.

Next Steps…

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

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Document issued 17/08/2020.