

WebWayOne

Installation Manual

WebWay IP/GPRS and GPRS/PSTN
Alarm signalling & remote alarm system management

For high security signalling with EN50131-1 Grade 2, 3 & 4 I&HAS

WebWay IP/GPRS LPS I&HAS – LPCB 1022b/01

I&HAS Grade 2 – Dual Path LPS 1277 ATS5
I&HAS Grade 3 – Dual Path LPS 1277 ATS5
I&HAS Grade 4 – Dual Path LPS 1277 ATS5
SSF 114 Version 2 (alarm classes 1, 2, 3, & 4)

WebWay GPRS/PSTN LPS I&HAS – LPCB 1022b/02

I&HAS Grade 2 – Dual Path LPS 1277 ATS4PLUS
I&HAS Grade 3 – Dual Path LPS 1277 ATS4PLUS
SSF 114 Version 2 (alarm classes 1 & 2)

For high security signalling with EN54-21: 2006 Fire Alarm Systems

WebWay IP/GPRS LPS Fire – LPCB 1022a/01

Fire Alarms & Fault Warning Type 1 - Dual Path LPS 1277 Fire Type 1

WebWay GPRS/PSTN LPS Fire – LPCB 1022a/02

Fire Alarms & Fault Warning Type 2 - Dual Path LPS 1277 Fire Type 2

Important – For marking and labelling requirements please refer to pages 5 and 6 of this guide.

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WebWay IP/GPRS & WebWay GPRS/PSTN Installation Manual

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System description

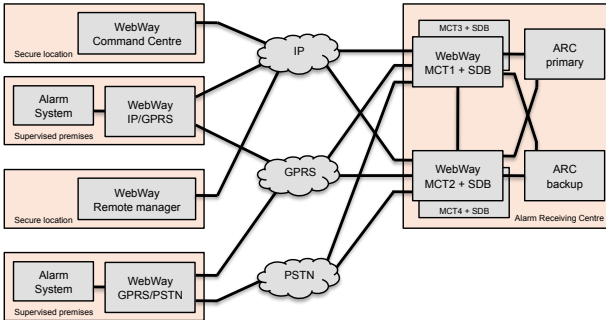
WebWay IP/GPRS

WebWay IP/GPRS is a dual path alarm signalling system for delivering alarms over a fixed line Broadband network and a Radio GPRS network. The WebWay managed service provides continuous surveillance of all transmission paths and equipment every second of every day. The unique WebWay architecture ensures that there are no single points of failure throughout the entire network. Any WebWay MCT, with its own synchronised database (SDB) has the capability to monitor and manage every client estate.

WebWay GPRS/PSTN

WebWay IP/GPRS is a dual path alarm signalling system for delivering alarms over a primary path Radio GPRS network and a backup PSTN telephone line. The WebWay managed service provides continuous surveillance of all transmission paths and equipment every second of every day. The unique WebWay architecture ensures that there are no single points of failure throughout the entire network. Any WebWay MCT, with its own synchronised database (SDB) has the capability to monitor and manage every client estate.

WebWay Managed Network - System diagram



WebWay Remote Manager

The WebWay IP/GPRS connects to the Alarm Panel serially permitting remote maintenance and management of all leading Alarm Panels. WebWay Remote manager provides a secure link from the Alarm Company to the Customer location via the MCT Gateway, which logs all of the transactions including whom, when and where - fully compliant with DD263.

WebWay Command Centre

WebWayOne provides an annual support contract to manage and maintain all of the elements of your Alarm Signalling Solution. WebWay IP/GPRS can be upgraded at any time remotely with new firmware to provide all of the latest features and functionality. The ARC is always equipped with the latest releases of software.

WebWay managed SIM

The WebWay IP/GPRS is delivered with an O2 SIM for operation over the UK GSM network. An O2 multi service provider SIM (access to Vodafone, Orange or T-Mobile) is provided where coverage is inadequate - authorisation and activation managed by WebWay support.

Police response

The WebWay solution is configured for the highest levels of protection for all medium and high-risk premises. In addition to meeting all of the requirements for I&HAS standard EN50131-1 the WebWay IP/GPRS will report a confirmed ATS alarm within 3 minutes and confirmed Intruder alarms within 10 seconds, initiating an immediate Police response.

Options

A range of options is available from WebWayOne including Aerials, Audio verification, 'special interface adapters', extended PIN and Output connections (48/12), boxed power supplies and additional serial interfaces.

For further information on the WebWay System and Services call WebWayOne at 01635 231500

WebWay IP/GPRS & WebWay GPRS/PSTN Installation Manual

Equipment part numbers

Part number	Description	Configuration
22-5005	WebWay IP/GPRS	ARC application configurable
22-5005 LPS Fire	WebWay IP/GPRS LPS Fire	LPS1277 EN54-21 Type 1
22-5005 LPS I&HAS	WebWay IP/GPRS LPS I&HAS	LPS1277 ATS 5
22-5015	WebWay GPRS/PSTN (22-5072 + 22-5076)	ARC application configurable
22-5015 LPS Fire	WebWay GPRS/PSTN LPS Fire	LPS1277 EN54-21 Type 2
22-5015 LPS I&HAS	WebWay GPRS/PSTN LPS I&HAS	LPS1277 ATS 4PLUS
22-5014	WebWay IP	ARC application configurable
22-5086	WebWay IP/PSTN	ARC application configurable
22-5059	Modem capture module	
22-5078	Audio capture module	
22-5076	PSTN dialler	
Antennae with roaming SIM (inactivated)		
22-5054	High performance disc antenna	
22-5049 – 5M	High gain extension antenna 5 metre	
22-5049 – 10M	High gain extension antenna 10 metre	
22-5049 – 15M	High gain extension antenna 15 metre	
22-5049 – 20M	High gain extension antenna 20 metre	
22-5073	RS232 Serial interface module	
22-5046	Power Comm module	
22-5082	Power Comm plus module	
22-5038	Remote PIN Module	
05-5017	Scantronic S95 alarm panel cable	
05-5017	Menvier M100/2000 alarm panel cable	
05-0241	Cooper TS range alarm panel cable	
05-0246	Texecom TTL alarm panel cable	
05-5031	Castle serial alarm panel cable	
22-1087	Grade 3 boxed PSU (battery not included)	

WebWay IP/GPRS & WebWay GPRS/PSTN Installation Manual

WebWay pre-Installation notes

IMPORTANT 1: for all Fire Systems

The 'WebWay IP/GPRS LPS Fire' and 'WebWay GPRS/PSTN LPS Fire' shall be used in conjunction with Fire alarm control and indicating equipment compliant with EN54-2 and capable of meeting options with requirements associated with clauses 7.9, 8.2.4(g), 8.2.5(b), 8.9, 9.4.1(c), 9.4.2(b), 10.1(e), 11(a), and 11(b).

Fire alarm and fire fault or trouble signals from the fire alarm control and indicating equipment must only be connected via PIN inputs. The PIN inputs shall be programmed as End of Line (EOL)

The 'WebWay IP/GPRS LPS Fire' and 'WebWay GPRS/PSTN LPS Fire' shall be housed within a metallic enclosure providing protection against ingress to IP30 at access level 2 and connected to an integral power supply compliant with EN54-4.

Configuration settings – 'LPS 1277 EN54-21 Type 1' (IP/GPRS) and 'LPS 1277 EN54-21 Type 2' (GPRS/PSTN) must be used.

IMPORTANT 2: read this guide before installing the equipment

The WebWay IP/GPRS and WebWay GPRS/PSTN have been certificated to LPS 1277 by the LPCB (Loss Prevention Certification Board). This certification ensures High Security, Maximum Performance, and Availability when configured with the following profiles:

WebWay IP/GPRS LPS I&HAS & WebWay IP/GPRS Fire I&HAS signalling configuration –

Enhanced configuration profiles are available for Intruder and Hold-up systems when using the WebWay IP/GPRS. These should be selected at the time of ordering the system and they will be configured into the WebWay IP/GPRS when it is commissioned to your selected ARC:

When installed as a WebWay IP/GPRS I&HAS Signalling System the LPCB label will be identified by a tick in the 1022b/01 box denotes the approved hardware and configuration.

Configuration

- Grade 2 Alarm systems - LPS1277 ATS5
- Grade 3 Alarm systems - LPS1277 ATS5
- Grade 4 Alarm systems - LPS1277 ATS5

Fire signalling configuration

Fire Alarm Systems – LPS1277 Type 1 Alarm Transmission and fault warning routing equipment

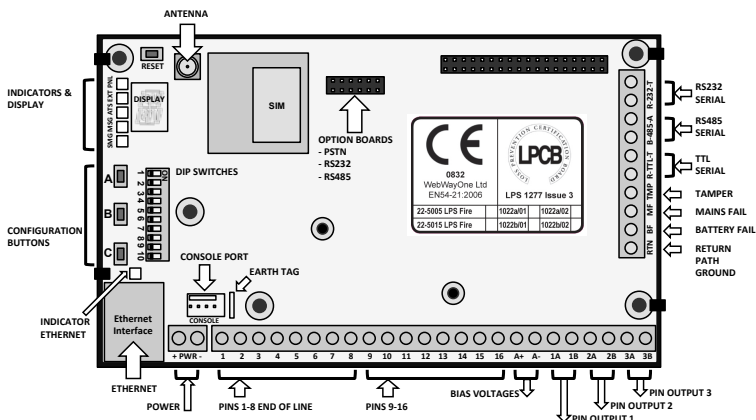
When installed as a FIRE Signalling System a tick in the 22/5005 and the 1022a/01 boxes denotes the approved hardware and configuration will identify the CE label.

Configuration

The configuration settings for compliance with EN54-21 Type 1 are LPS 1277 EN54-21 Type 1 (Part number 1411AD155001)

WEBWAY IP/GPRS LPS FIRE & WEBWAY GPRS/PSTN LPS FIRE

Affix label and tick box to denote hardware type



WebWay IP/GPRS & WebWay GPRS/PSTN Installation Manual

WebWay GPRS/PSTN LPS I&HAS & WebWay GPRS/PSTN LPS Fire

I&HAS signalling configuration –

Enhanced configuration profiles are available for Intruder and Hold-up systems when using the WebWay IP/GPRS. These should be selected at the time of ordering the system and they will be configured into the WebWay GPRS/PSTN when it is commissioned to your selected ARC.

When installed as a WebWay GPRS/PSTN I&HAS Signalling System the LPCB label will be identified by a tick in the 1022b/02 box denotes the approved hardware and configuration.

Configuration

- Grade 2 Alarm systems - LPS1277 Enhanced ATS4PLUS

- Grade 3 Alarm systems - LPS1277 Enhanced ATS4PLUS

Fire signalling configuration

- Fire Alarm Systems – LPS1277 Type 2 Alarm Transmission and fault warning routing equipment

Important: When installed as a FIRE Signalling System a tick in the 22-5015 LPS Fire and 1022a/02 boxes denotes the approved hardware and configuration will identify the CE label.

Important: The WebWay IP/GPRS should either be installed in the associated EN54 compliant Fire Alarm Panel or an EN54-4 compliant PSU.

Configuration

The configuration settings for compliance with EN54-21 Type 2 are LPS 1277 EN54-21 Type 2 (Part number 1411AD155003)

Important notes:

For further information of the signalling profiles and their parameters please refer to the section "Statutory information & Configuration profiles".

An 'Auto Take-On' procedure is described in this document and should be completed in conjunction with testing of alarm signalling to the ARC.

If you require assistance from the WebWayOne support group during the installation process you will need to provide the chip number, site ID and central station number. The number will have been provided by your ARC / Branch and is the number required for the 'Auto Take-on' procedure

WebWayOne technical support is available between 08.30 am and 5.15 pm Monday to Friday.

Any suspected faulty units should be notified to WebWayOne technical support during the installation process.

Contact for WebWay Technical support - 01635 231514

WebWay IP/GPRS & WebWay GPRS/PSTN Installation Manual

Installation – equipment familiarisation

Please read this section and the appendixes prior to installing the WebWay; this manual includes the installation process for WebWay IP/GPRS and WebWay GPRS/PSTN.

Check your WebWay installation package contains the following:

WebWay IP/GPRS LPS I&HAS & WebWay IP/GPRS LPS Fire

IP/GPRS PCB fitted with plastic fixing base

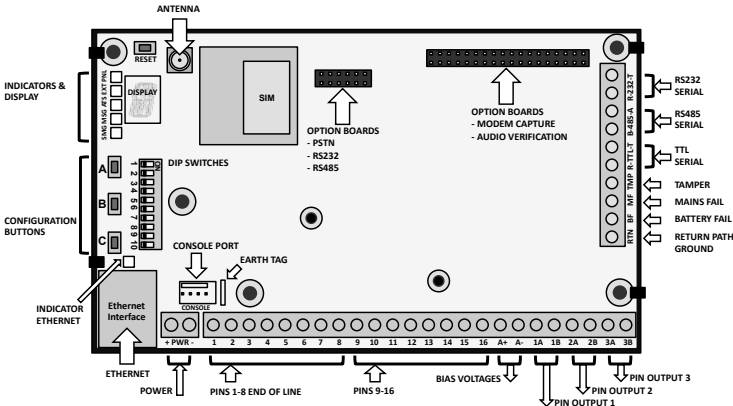
T Bar antenna

Ethernet cable

Ethernet tamper shroud

Installation manual

WEBWAY IP/GPRS



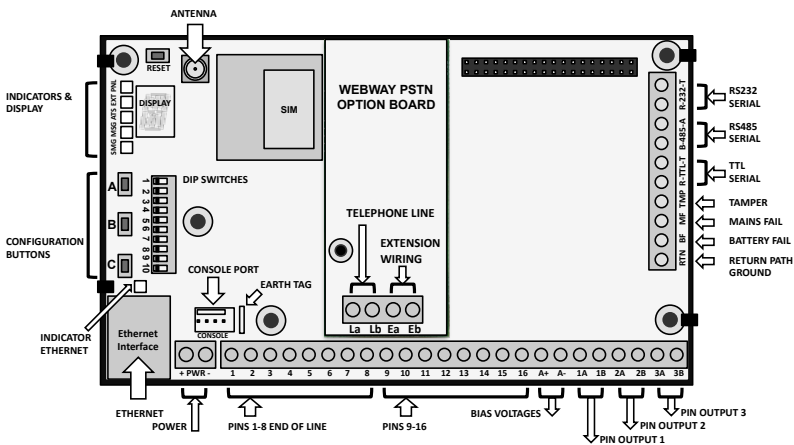
WebWay GPRS/PSTN LPS I&HAS & WebWay GPRS/PSTN LPS Fire

GPRS/PSTN PCB fitted with plastic fixing base

T Bar antenna

Installation manual

WEBWAY GPRS/PSTN



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Interfaces, Push buttons, Switches, Display, Indicators, Inputs, Outputs, and Power

Interfaces - IP/GPRS

Ethernet

Antenna

Serial RS232 – 3 wires: Transmit, Receive & Return path ground

Serial RS485 – 3 wires: A, B, & Return path ground

Serial TTL – 3 wires: Transmit, Receive & Return path ground

Console port

Interfaces – GPRS/PSTN

In addition to IP/GPRS interfaces:

Telephone line – a and b

Extension wiring – a and b

Push Buttons

A, B, & C

DIP Switches

Switch	Description	Notes
Switch 1	IP/GPRS - force Ethernet FAIL GPRS/PSTN - force PSTN FAIL	Return to OFF after test procedure
Switch 2	Force GPRS FAIL	Return to OFF after test procedure
Switch 3	MENU	Factory setting – do not change
Switch 4	DISP	Factory setting – do not change
Switch 5	MODE	Factory setting – do not change
Switch 6	RUN/BOOT	Factory setting – do not change
Switch 7	33/66	Set to ON when using the Modem Capture and Audio Capture module
Switch 8	HIGH/LOW	Factory setting – do not change
Switch 9	SOFT	Factory setting – do not change
Switch 10	TERM	Factory setting – do not change

Display

Starburst display

Indicators

Legend	Indicator	Description
PNL	Panel indicator	Shows the data flow for the serial alarm panel interface - Red for data from the alarm panel to the WebWay - Green for data from the WebWay to the alarm panel
EXT	External port interface indicator	Shows the data flow for the optional serial alarm panel interface - Red for data from the external device to the WebWay - Green for data from the WebWay processor to the external device
ATS	Path and interface status	Shows the status of each transmission interface and path. The indicator flashes once for each path followed by a gap. Each flash provides the following status indications: Green – Good path on good interface Orange – Bad interface Red – Bad path (no communication with ARC) but interface good
MSG	Message status	Message queue status indication Indicates the status of the queue of messages being sent to the ARC Red – Messages are queued and have not been sent Green – Messages have been sent but not acknowledged Orange – Messages waiting to be sent plus messages sent and waiting to be acknowledged Off – No messages waiting to be sent or waiting to be acknowledged
SMG	Commission status	Indicates the configuration and commission status of the WebWay Flashing Green (sometimes with a hint of orange) – Commissioned Flashing Orange – Initialising, system not ready yet Red / Green Alternate – Not commissioned Flashing Red – Not Commissioned
	Ethernet data	Green on – 10BaseT Green off – 100BaseT Red - Data activity to and from the LAN

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PIN inputs

PINS 1-8 End of line or simple PINS, **PINS 9-16** simple PINS

PINS – Tamper, Mains Fail, Battery Fail

BIAS voltage +/-

PIN Outputs

PIN outputs 1, 2 & 3

Reference voltages A+ Nominal 12 volts or 24 volts depending on application; A- 0 volts

Power

Inputs + **PWR** - adjacent to the Ethernet connector

WebWay IP/GPRS & WebWay GPRS/PSTN Installation Manual

Installation process for WebWay IP/GPRS & WebWay GPRS/PSTN

Note: For Fire Type 1 or Type 2 applications CE Fire label should be fixed to the unit prior to installation.

The WebWay is fitted with a plastic base for installation in your chosen Alarm Panel using the adhesive pads provided. In some cases the WebWay will be delivered in its own-boxed PSU. Either fix the WebWay into the Alarm Panel with the adhesive pads or fix the Boxed system to the wall.

Location of equipment – Installation to BS8243:2010

It is essential that the signalling equipment be sited in an area where access will result in a confirmed activation. Signalling equipment should not be located in an area configured as an alarm entry route.

Antenna installation – part 1

Connect the Antenna cable to the WebWay and temporarily locate the T-Bar Antenna away from the enclosure. Part 2 of the Antenna installation is described after the unit is power on.

WebWay IP/GPRS - connecting the Ethernet cable

Connect the Ethernet cable to the RJ45 port of the WebWay and an allocated RJ45 connection on the clients Ethernet switch or router and ensure the Ethernet cable shroud is fitted to protect against accidental removal.

Note: Secure the Ethernet cable by pushing the shroud over the RJ45 plug and crop just beyond the shoulder of the locking tag. Move the cable shroud over the RJ45 Plug to prevent accidental cable removal.

Dedicated IP path configuration

Prior to Installation the following signalling information is required for the Auto Take On configuration process.

The ARC selected for notification of Alarms

Local IP addressing:

Option 1 - DHCP – automatic allocation of IP addresses

Option 2 - Static IP Address - IP Address, Subnet mask, and Default Gateway

Client static IP Network and Firewall configuration requirements

IMPORTANT. Prior to installation you will need to ensure the clients IT department has provided a network connection point, (Power socket if required), the IP address information, and opened the appropriate Firewall ports. (If you need any advice regarding Firewalls you should contact WebWay support on 01635 231514.)

The WebWay can be installed with DHCP or Static IP addresses. Where a static IP is selected the IP Address, Subnet mask, and Default Gateway are required.

To assist the client to configure the Firewall the following information is provided:

The WebWay IP/GPRS is installed at the remote premises and communicates, via the customer network/firewall, with Monitoring Centre Transceivers (MCTs), located in the alarm-receiving centre (ARC).

For all IP traffic the MCTs at the ARC listen for the Encrypted Alarms and Polling messages on UDP port 50561. The WebWay initiates communication over any IP path and the return path is reliant on state-full dynamic port mapping (NAT) at the secure premises or fixed routing/port mapping if required by the supervised premises client.

Additional support diagnostics are available if a local PING can be sent from the WebWay device to the on site router (or other network devices).

System transmission protocol is UDP/IP. All data is encrypted using the AES standard with a 128-bit key and 256 bit hash code and sequenced. The data bandwidth required for the Signalling System for Alarms and Polling is 160 bytes (round trip including alarm and acknowledgement). Polling frequency is every 30 seconds from each connection

Alternative data delivery options

WebWay traffic may be delivered to the ARC over VPN or dedicated links on agreement.

WebWay GPRS/PSTN - connecting the Telephone Line

Connect the telephone line to terminals La and Lb on the PSTN module.

PSTN Operational Notes

It is advised that you carry a Butt phone when installing the Airway solution in case line checks are required

The line must not be configured to withhold CLI on outgoing calls

'Call Barring' MUST NOT be enabled on the line.

If a prefix of 9 to dial out or carrier pre-selection (1280) is needed we can modify the unit to use those prefixes

If it's connected to the PSTN service of a Broadband Circuit then an appropriate DSL filter MUST be fitted.

WebWay IP/GPRS & WebWay GPRS/PSTN Installation Manual

Connecting the WebWay to the Alarm System

Alarm Panel connection – Serial

Connect the WebWay using the appropriate serial connection to the alarm panel and configure the panel according to the instructions detailed in the WebWay document 'WebWay alarm panel configuration'. Installation details may be obtained from WebWayOne for all major Alarm Panels. The serial connections are 3 wires, which includes a return path ground from the Alarm Panel serial interface.

Alarm Panel connection – PINS

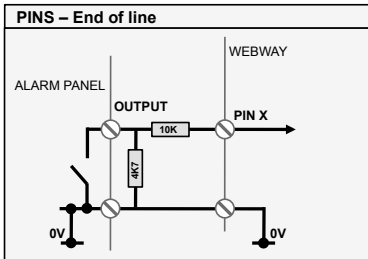
PINS 1-16

IMPORTANT: Fire applications

When used in Fire applications PIN 1 (Fire Alarm) and PIN2 (Fire fault or trouble) are always programmed as EOL. PIN Inputs 3-8 can be programmed as simple HIGH/LOW inputs or END OF LINE (EOL) and PINS 9-16 are always programmed as simple HIGH/LOW inputs.

IMPORTANT: Fire Alarm Configuration - to comply with requirements of EN54-21 7.4.1 a hard wired fire alarm input must use PIN 1. The WebWay will ensure that the Fire Alarm will be transmitted before any other fire fault event where multiple Alarms and Faults are generated at the same time.

I&HAS applications: When used in I&HAS applications PIN Inputs 9-16 are always programmed as simple high low inputs and PIN Inputs 1-8 can be individually programmed as END OF LINE (EOL) or simple HIGH/LOW inputs.

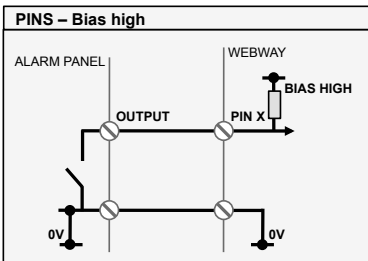


Hard wired Inputs 1-8 configured as 'end of line' (EOL)

Alarm state	10k +/- 5%
Restore state	14k7 +/- 5%
Open circuit	Loop > 100k ohms
Short circuit	Loop < 5 ohms
Tamper conditions	- Loop between > 5 ohms & < 10k ohms -5%
	- Loop between > 10k ohms + 5% & < 14k7
	ohms -5%
	- Loop between > 14k7 ohms + 5% & < 100k

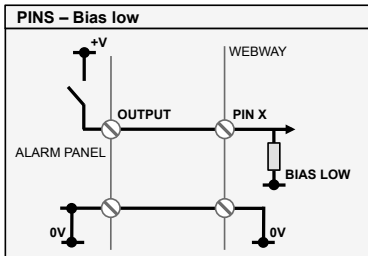
ohms

If required the alarm and restore conditions may be reversed in the SPT configuration



Hard wired Inputs 1-16 configured as simple high inputs

Input threshold high to low 2.0V DC (maximum Input voltage: 30V DC)
If required the alarm and restore conditions may be reversed in the SPT configuration



Hard wired Inputs configured as simple low inputs

Input threshold low to high 4.0V DC (maximum Input voltage: 30V DC)
If required the alarm and restore conditions may be reversed in the SPT configuration

Hard wired PIN Inputs

PIN Input - Tamper configured as for simple low or high inputs

PIN Input - Battery fail configured as for simple low or high inputs

PIN Input - Mains fail configured as for simple low or high inputs

WebWay IP/GPRS & WebWay GPRS/PSTN Installation Manual

Alarm panel connection – Modem Capture

The Modem capture module may be used for Intruder & Hold up alarm signalling, Upload/Download and remote servicing. Details are provided in the document 'WebWay alarm panel configuration'

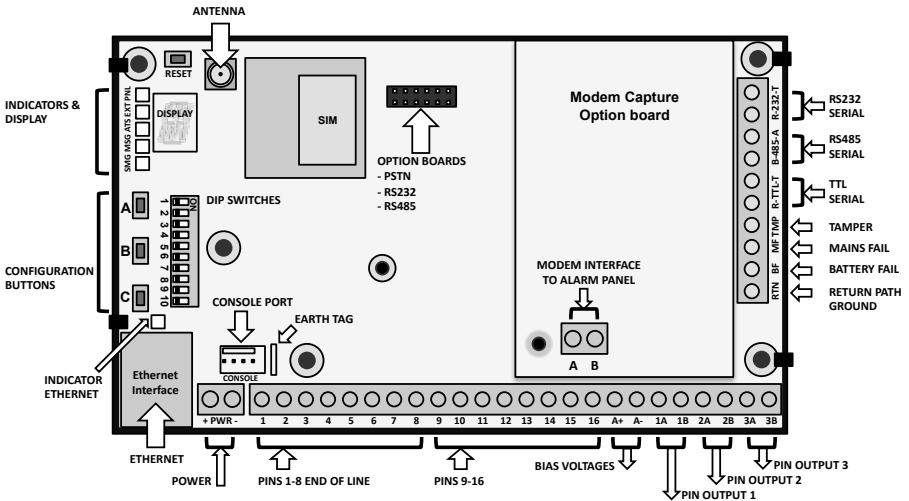
Modem capture module

IMPORTANT NOTE: 1 When using the Modem capture in association with a fire system Fire Alarm, Fire Fault or Trouble messages must be transmitted using the PIN interfaces.

IMPORTANT NOTE: 2 Remove power before fitting or removing the module.

- Before fitting the Modem Capture module set the OSC jumper to 66Mhz.
- Fit the Modem capture module onto the 15-pin PL1 connector and fix to the steel spacing pillar on the main board using the screw provided.
- Connect the WebWay to the Modem capture module and the alarm panel. You will be required to configure the panel according to the instructions detailed in the WebWay document 'Alarm panel interconnections and programming' – This document is available from WebWayOne; if you need assistance call WebWay support on 01635 231514.

WEBWAY IP/GPRS + MODEM CAPTURE OPTION BOARD



Hard wired PIN Inputs

- PIN Input - Tamper** configured as for simple low or high inputs
- PIN Input - Battery fail** configured as for simple low or high inputs
- PIN Input - Mains fail** configured as for simple low or high inputs

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Reporting ATS faults to the CIE

When installing the WebWay to meet EN54-21, EN50131-1 and PD6662 standards the following connections should be made between the WebWay and the Alarm System.

Fault output relay	Signal	Description
EN54-21 Fire mode		
PIN output 1	Spare	
PIN output 2	Fire Alarm Acknowledged	Received acknowledgement from the fire alarm receiving centre
PIN output 3	Fault Warning	A Fault warning signal will be generated when one of the following faults is detected 1 Failure to receive an acknowledgement to a Fire Alarm Message within 100s 2 Failure of the WebWay IP/GPRS or WebWay GPRS/PSTN or power. 3 Failure of the Alarm Transmission Network (all paths failed) 4 A PIN fault (Open Circuit, Short Circuit etc.)
EN50131 I&HAS mode 1		
PIN output 1	GPRS failure	Single Path alarm presented after the elapsed reporting times defined in Table 11 – enhanced ATS 4+ and Enhanced ATS 5+
PIN output 2	Ethernet (IP/GPRS) or PSTN failure (GPRS/PSTN)	Single Path alarm presented after the elapsed reporting times defined in Table 11 – enhanced ATS 4+ and Enhanced ATS 5+
PIN output 3	Spare	
EN50131 I&HAS mode 2		
PIN output 1	Communications failure/Dual Path failure	Catastrophic failure of the Alarm transmission System
PIN output 2	Spare	
PIN output 3	Spare	

Power connection

Ensure the Alarm System power is OFF before connecting the WebWay.

Connect the WebWay PWR + and – terminals to the power supply of the alarm panel +v and –v.

Restore power to the Alarm System.

The WebWay will automatically initiate a start-up sequence and on completion the GSM signal strength will be shown on the display; represented by a number between 1 - 9 & A (representing a maximum value of 10).

Antenna installation – part 2

Locate the T-Bar Aerial in a position that provides the maximum GPRS signal (1 being the lowest and A, the highest) and fix the Antenna using the self-adhesive pad.

Note: Do not fix the T-Bar Antenna to the enclosure

WebWay configuration

The WebWay will normally have been pre configured for your installation and commissioning will automatically commence after you have entered the site ID and the unit is reset.

Entering the Site ID

Ensure the WebWay displays a stable GSM signal strength reading and proceed to enter the Site ID using the display and configuration buttons as follows:

Tap button A until menu option 'd' is displayed

Press and hold the 'C' button until '_' is displayed

Tapping the 'A' button decreases the displayed number, and tapping the 'B' button increases the displayed number. Use the A and B buttons to select the first number of the site ID. When the number appears on the display, press the 'C' button to enter - this will return the display to '_'

Follow the same process to enter the remaining numbers of the site ID

After the final number of the site ID has been entered press the 'C' button a second time. A moving circle will be displayed followed by a return to menu option 'd'

Check that you have correctly entered the site ID by pressing the 'C' button and observing the readout

IMPORTANT: If you have entered the ID incorrectly, when the system returns to the signal strength display re-enter the Site ID.

Commissioning and Automatic Configuration – AUTO TAKEON

Press the RESET button located at the top left of the board (above the display) to finalise the commissioning – it will take up to 5 minutes to complete the commissioning and automatic configuration of the WebWay.

Testing Alarm signals with the ARC

When the WebWay AUTO TAKEON is completed you should send test alarms to your ARC.

WebWay IP/GPRS & WebWay GPRS/PSTN Installation Manual

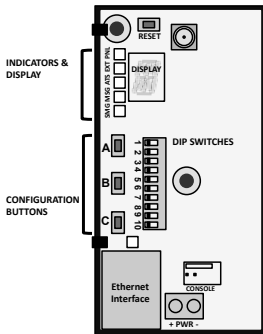
If the ARC successfully receives the alarms the system is fully commissioned.

If the ARC does not receive the correct test alarms contact WebWayOne Technical Support on 01635 231514.

Alarm Transmission Path tests with the ARC - Manual

To simulate a failure of the Ethernet path, PSTN Telephone line, or the GPRS path select the following switch positions:

DIP switch settings



IP/GPRS DIP Switch 1 - if set to 'ON' will simulate Ethernet failure

GPRS/PSTN DIP Switch 1 - if set to 'ON' will simulate PSTN failure

IP/GPRS & GPRS/PSTN DIP Switch 2 - if set to 'ON' will simulate GPRS failure

Note: Ensure that DIP Switches 1 & 2 are returned to the 'OFF' position once testing is complete.

Note: Remote servicing requirements for ATS path tests are explained in the section Remote Servicing.

The installation is now complete

Maximising signal strength

Where signal strength is inadequate for reliable GPRS operation WebWay offer the following Antenna options.

- High Performance disc antenna with roaming SIM that may be attached to the outside of the enclosure.
- High Gain aerial extension antenna with 10, 15 and 20 metre leads and roaming SIM

Note: In all cases any excess cable must be loosely coiled outside of the enclosure and ensure the cable is not crushed or kinked, as this will affect performance.

Roaming SIM & High performance Aerials

A WebWay Roaming SIM is provided which will identify a suitable network for connectivity. If an intermittent or poor quality performance is not attainable on any of the networks, a High performance/High Gain Aerial should be considered to improve the GPRS availability to the required performance level. For assistance call WebWay support for assistance on 01635 231514.

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Remote Servicing

Remote servicing of Alarm Panels and the Alarm Transmission System is described in the new Standard DD263:2010

The WebWay IP/GPRS and the WebWay GPRS/PSTN are connected to the secure premises via the WebWay MCTs at the ARC.

WebWay Remote Manager provides secure access software, permitting an Alarm System management package to remotely access an Alarm System and the WebWay from a secure premise using a secure computer. The access process complies with all the requirements of initialization, authorization, authentication of communication, and information security defined in DD263, section 4.2 C) 3. The Information and Substitution security meets I3, S2 and the security requirements of EN50136-1-5: 2006 for IP networks

Alarm Transmission Path tests with the ARC – Automatic Remote (DD263)

The ARC or the Alarm Company may initiate the required tests using the WebWay Remote Manager, and results are automatically logged and displayed on the WebWay Command Centre.

Testing process:

The test is initiated by accessing the 'Site Display' screen for the required location on the WebWay Command Centre.

The Diagnostics screen is selected to initiate a check of each ATS transmission path. The process will confirm when the remote checks have been completed.

The path checks are displayed at the WebWay Command Centre. The checks may also be displayed on the Annunciation Equipment at the ARC (This is a setting in the WebWay IP/GPRS and WebWay GPRS/PSTN configuration profiles).

There are four paths checked during the process:

WebWay IP/GPRS

WebWay Ethernet path through Broadband Network to MCT1/ARC 1

WebWay Ethernet path through Broadband Network to MCT2/ARC 2

WebWay GPRS path through GPRS Network to MCT1/ARC 1

WebWay GPRS path through GPRS Network to MCT2/ARC 2

WebWay GPRS/PSTN

WebWay GPRS path through GPRS Network to MCT1/ARC 1

WebWay GPRS path through GPRS Network to MCT2/ARC 2

WebWay PSTN path through Telephone Network to MCT1/ARC 1

WebWay PSTN path through Telephone Network to MCT2/ARC 2

This process fully complies with the requirements of PD 6662:2004 and DD 263:2010 and will operate in any system without reliance of any reciprocal software need in the alarm panel.

Remote Management of Alarm Panels

The ARC or the Alarm Company initiates a secure connection using the WebWay Remote Manager and the Alarm Company management software to access the Site and the Panel. Details of the Engineer, the Secure Computer and the Time and Date are recorded in the system.

For further information on Remote Management and Maintenance of Alarm Panels contact WebWayOne

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Annex A - Configuration profiles

WebWay IP/GPRS and WebWay GPRS/PSTN have been tested and certificated to LPS1277 for enhanced ATS performance.

The Revised Table 10 shown below permits stakeholders to select enhanced option C ATS 5 and enhanced options ATS4Plus. Alarm Transmission Systems for use with Grade 2, 3, and 4 I&HAS. When an option is selected the profile is automatically downloaded to the WebWay when connected to the chosen Alarm Receiving Centre. The ARC or WebWayOne will only make changes to a configuration on instruction in writing from the End User and the associated Alarm Company.

Configuration profiles for Intruder and Hold-Up Alarm Systems

WebWay IP/GPRS

The IP/GPRS has been tested and certificated by LPCB to LPS1277 for enhanced ATS performance criteria higher than currently available in Table 11 (EN50131-1:2006+A1:2009)

The standard profile for IP/GPRS is Dual Path Enhanced ATS5 where the reporting time of the secondary path steps up to 3 minutes when the primary is failed and the system will detect a catastrophic ATS failure or attack within 3.5 minutes. A unique feature of the WebWay IP/GPRS is the system software that provides availability figures for the monitoring and management every path of every ATS to 99.8%.

WebWay GPRS/PSTN

The GPRS/PSTN has been tested and certificated by LPCB to LPS1277 for enhanced ATS performance criteria higher than currently available in Table 11 (EN50131-1:2006+A1:2009)

The standard profile for GPRS/PSTN is Dual Path Enhanced ATS4+ where the reporting time of the secondary path steps up to 10 minutes when the primary is failed and the system will detect a catastrophic ATS failure or attack within 11 minutes. A unique feature of the WebWay IP/GPRS is the system software that provides availability figures for the monitoring and management every path of every ATS to 99.8%.

Configuration profiles for Fire alarm transmission and fault warning routing equipment

WebWay IP/GPRS

The IP/GPRS has been tested and certificated by LPCB under LPS1277 for Fire Alarm System to the ATS Type 1 requirements of EN54-21:2006 Annex A Table A1. See revised **Table 11**.

The ATS criteria chosen, as the standard profile for IP/GPRS is Dual Path ATS Fire Type 1 where the reporting time of the secondary path steps up to 90 seconds when the primary path is failed and the system will detect a catastrophic ATS failure or attack within 3 minutes. A unique feature of the WebWay IP/GPRS is the system software that provides availability figures for the monitoring and management every path of every ATS to 99.8%.

WebWay GPRS/PSTN

The GPRS/PSTN has been tested and certificated by BRE under LPS1277 for Fire Alarm System to the ATS Type 2 requirements of EN54-21:2006 Annex A Table A1. See revised **Table 11**. The standard profile for GPRS/PSTN is Dual Path Enhanced ATS4+ where the reporting time of the secondary path steps up to 10 minutes when the primary is failed and the system will detect a catastrophic ATS failure or attack within 11 minutes.

A unique feature of the WebWay GPRS/PSTN is the system software that provides availability figures for the monitoring and management every path of every ATS to 99.8%.

Revised Table 10 - EN50131-1:2006+A1:2009 for enhanced ATS options C4+ and C5

Notification Equipment	Grade 2 (I&HAS)			Grade 3 (I&HAS)			Grade 4 (I&HAS)	
	Options			Options			Options	
	C	C ATS4PLUS	C ATS 5	C	C ATS4PLUS	C ATS 5	C	C ATS 5
		WebWay GPRS PSTN	WebWay IP GPRS		WebWay GPRS PSTN	WebWay IP GPRS		WebWay IP GPRS
Remotely powered Audible WD	Op	Op	Op	Op	Op	Op	Op	Op
Self-powered Audible WD	Op	Op	Op	Op	Op	Op	Op	Op
Main ATS	ATS 2	ATS4PLUS	ATS 5	ATS 4	ATS4PLUS	ATS 5	ATS 5	ATS 5
Additional ATS	ATS 1	ATS4PLUS	ATS 5	ATS 3	ATS4PLUS	ATS 5	ATS 4	ATS 5
ATS Dual Path		Enhanced ATS4PLUS	Enhanced ATS 5		Enhanced ATS4PLUS	Enhanced ATS 5		Enhanced ATS 5

Note: Single path options and Grade 1 I&HAS have been removed for clarity

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Revised Table 11 - EN50131-1:2006+A1:2009

Including: I&HAS - LPS enhanced ATS5 & LPS enhanced ATS4 PLUS

Including: FIRE - LPS EN54-21 Type 1 & LPS EN54-21 Type 2

The revised table 11 is shown below and outlines the key parameters for the advanced performance of the selected signalling system. Highlighted performance criteria illustrate the WebWayOne advanced signalling solutions certificated by the LPCB.

Performance Criteria	Transmission Time	Transmission Time Max	Reporting Time (RT) Main ATP	Reporting time of additional path Main ATP good	Reporting time of additional path Main ATP failed	Reporting time Catastrophic Fail ATP 1 & 2	Substitution Security	Information Security	ATS Availability
ATS 1	D1 120s	M1 480s	T2 25h			Not required	S0	I0	Not required
ATS 2	D2 60s	M2 120s	T2 25h			Not required	S0	I0	Not required
ATS 2 + ATS 1	D2 60s	M2 120s	T2 25h	T2 25h	T2 25 h	Not required	S0	I0	Not required
ATS 3	D2 60s	M2 120s	T2 25h			Not required	S1	I1	Not required
ATS 4	D2 60s	M2 120s	T3 300m			Not required	S1	I2	Not required
ATS 4 + ATS 3	D2 60s	M2 120s	T3 300m	T2 25h	T3 300 m	Not required	S1	I2	Not required
WebWay GPRS/PSTN LPS I&HAS									
LPS Enhanced ATS4PLUS Dual Path	D3 60 s	M3 120 s	T3+ 10 m	T3 24 h	T3+ 10 m	11 m	S2	I3	A4
LPS enhanced ATS4PLUS = Dual Path ATS with 10 minute reporting time, stepped up reporting of secondary path failure, and 11 minute reporting time for catastrophic failure of both paths and A4 requirement for ATS availability.									
WebWay GPRS/PSTN LPS Fire									
LPS ATS Fire EN54-21 Type 2	D3 10 s	M3 30 s	T3+ 10 m	T3 24 h	T3 24 h	T3 11 m	S2	I3	A4
ATS 5	D3 20s	M3 60s	T4 180s			Not required	S2	I3	Not required
ATS 5 + ATS 4	D3 20s	M3 60s	T4 180s	T4+ 300m	T4+ 300m	Not required	S2	I3	Not required
WebWay IP/GPRS LPS I&HAS									
LPS Enhanced ATS5 Dual Path	D4 20 s	M3 60 s	T4 180 s	T3 30 m	T4 180 s	210 s	S2	I3	A4
LPS enhanced ATS5 = Dual Path ATS with 3 minute reporting time, stepped up reporting of secondary path failure, and 3.5 minute reporting time for catastrophic failure of both paths and A4 requirement for ATS availability									
WebWay IP/GPRS LPS Fire									
LPS ATS Fire EN54-21 Type 1	D4 10 s	M3 20 s	T5 90 s	T3 30 m	T5 90 s	180 s	S2	I3	A4
ATS 6	D4 10s	M4 20s	T6 20s			Not required	S2	I3	Not required

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Annex B - LPS 1277 Installation procedures

Installation guidance for LPCB approved supervised premises transceivers (SPT) connected to Intrusion & Hold up Alarm Systems (I&HAS)

This 'Best Practice' guidance on installation practices will help enhance general Alarm Transmission System (ATS) security/resilience, avoid undue (false) path failure reports and reduce customer inconvenience.

Important Notes

1 A claim to have installed LPCB approved SPT will be invalid if this guidance has not been followed.

2 Within this guidance the word 'shall' indicates a mandatory requirement. Use of the word 'should' indicates a requirement unless practical constraints prevent compliance.

Installation (alarm company) Information

Location and alarm protection of the Supervised Premises Transceiver (SPT)

i) The SPT part of the Alarm Transmission Equipment (ATE), shall be located within the I&HAS Control and Indicating Equipment (CIE), or within an enclosure that shares the same mains power supply, and has the same level of battery back up and tamper protection, as is required for the associated CIE.

ii) The location of the CIE, or other enclosure, containing the SPT;

- shall, when installed as part of a new I&HAS; be in an area provided with 'direct alarm protection'^{a)} and be located where it is not visible to, or readily accessible by, members of the public.

- should, when retro-fitted to a pre-existing I&HAS; be in an area provided with 'direct alarm protection'^{a)} and be located where it is not visible to, or readily accessible by, members of the public.

Alarm protection of Site Network Equipment

i) 'Site Network Equipment'^{b)} that can be switched off or which has a locally or remotely accessible and changeable function, (e.g. a telephone switchboard or IP router), together with Alarm Transmission Path (ATP) aerials* and network access termination points, shall be located in an area provided with 'direct alarm protection'^{a)}.

ii) Other 'Site Network Equipment'^{b)}, for example intermediate junction boxes, should be provided with 'direct alarm protection'^{a)}.

Where an ATP aerial cannot be located in an area readily provided with 'direct alarm protection'^{a)} and still achieve the recommended minimum signal strength for adequate performance, it may be installed elsewhere (preferably indoors but otherwise outdoors), subject to positioning it where its discovery and/or ready access by intruders is considered unlikely.

Connections between the SPT and Site Network Equipment^{b)}

i) Any radio based ATP shall have a cable connection between the SPT and the required aerial, with all cable termination points, including those at any intermediate connections, using termination components (or housings) that protect against cable removal without the use of a tool.

ii) Any landline based ATP shall have a cable connection between the SPT and the first suitable alarm transmission network termination point within the premises. This shall be made in one continuous run and use termination components (or housings) that protect against cable removal without the use of a tool.

The connection to the alarm transmission network shall be made in such a manner that where non-alarm related apparatus/services are also connected to that network, they do not prevent, or interfere with, the correct operation of the ATS.

Notes.

^{a)} The phrase 'direct alarm protection' shall mean that sufficient detection devices are installed to ensure that, when the I&HAS is set, access to the protected equipment results in a full (e.g. a 'confirmed') alarm condition. Where an I&HAS uses a time delayed entry/exit route as part of the facility for unsetting, detection devices programmed to act as entry/exit route detection shall not be regarded as providing 'direct protection'.

^{b)} The phrase 'Site Network Equipment' shall be regarded as all equipment installed within the alarmed premises through which signals from the SPT to the alarm transmission network beyond the perimeter of the premises are transmitted. For example, non-alarm dedicated (shared use) IP routers, telephone switchboards/Private Automatic Branch Exchanges (PABX), network access termination points, ATP aerials and communication network junction boxes/switches.

ARC/ATS message holding

Where the Alarm Receiving Centre (ARC) &/or ATS provider offers, or requests use of, a facility to block the receipt of, or hold information relating to, ATS fault notification signals or messages pending receipt of further alarm information (e.g. pending the designation of a confirmed alarm as per BS 8243), agreement to such an action shall be confirmed in writing by the customer (end user); with the relevant notification stating that this action is compatible with the risk assessment and/or the requirements of any interested party, for example an insurer.

In such cases the installer shall make suitable arrangements, which shall be confirmed in writing, for the customer to be alerted to any such ATS fault notification signals/messages when their alarm system is next unset, or after a period of 96 hours, whichever is the sooner.

Customer (end user) Information

Installers shall advise the customer:-

1 - of any potential for normal ATS functions, including normal or 'stepped up' checking of ATS availability (e.g. by sending test signals), which could interfere with, or prevent use of, any non-alarm related apparatus/services connected to a telephone line shared with the ATS. In such cases customers should be recommended to consider use of an ex-directory 'In Coming Calls Barred' (ICCB) telephone line dedicated to ATS use.

2 - of the adverse effect on reliable operation of their intruder alarm system that may result where 'Site Network Equipment'^{b)} used by the ATS:-

- could have its correct operation/settings locally or remotely accessed and changed/disabled, for example a non-alarm dedicated (shared use) IP router. In such cases customers should be recommended to consider protection against unauthorised access by the use of an access password (not the factory default) and, if their equipment has wireless connectivity having the wireless network Access Point Name (APN) hidden.

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- would cease to work in the event of loss of mains power; for example a Private Automatic Branch Exchange (PABX) or non-alarm dedicated (shared use) IP Router. In such cases customers should be recommended to consider protecting the power supply against disconnection by use of an unswitched fused spur connection or by having such equipment or its power supply connections located in an area/room to which unauthorised access is restricted.

3 - of the adverse effect on reliable operation of their intruder alarm system that may result from cessation of any communication service(s) necessary for correct operation of the ATS; for example telephony services such as 'three way calling' (Star Services) or access to internet services (via an ISP). In such cases customers should be recommended to take steps to ensure that availability of these services is maintained at all times when their alarm system is likely to be in use.

4 - that, where the performance of the SPT is capable of being changed after installation, such changes shall be confirmed in writing by the customer; with the relevant notification stating that any such change is compatible with the risk assessment and/or the requirements of any interested party, for example an insurer.

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Annex C

EC Declaration of Conformity

In accordance with EN ISO 17050-1:2004

We WebWayOne Ltd

of 11 Kingfisher Court, Hambridge Road, Newbury, Berkshire, RG14 5SJ

in accordance with the following Directive(s):

2006/95/EC	The Low Voltage Directive
2004/108/EEC	The Electromagnetic Compatibility Directive
1999/5/EC	R&TTE Directive
89/106/ECCPD	Construction Products Directive (CPD)

hereby declare that:

Equipment WebWay IP/GPRS, WebWay GPRS/PSTN
 Model number 22- 5072 (WebWay IP/GPRS), 22- 5085 (WebWay GPRS/PSTN)
 Is in conformity with the applicable requirements of the following documents

Alarm Transmission Systems, applications and safety standards	
EN50136-1-1: 1998+A2:2008	General requirements for alarm transmission systems
EN50136-1-2: 1998	Requirements for systems using dedicated alarm paths
EN50136-1-3: 1998	Requirements for systems with digital communicators using the public switched telephone network
EN50136-1-4: 1998	Requirements for systems with voice communicators using the public switched telephone network
EN50136-2-1: 1998	General requirements for alarm transmission equipment
EN50136-2-2: 1998	Requirements for equipment used in systems using dedicated alarm paths
EN50136-2-3: 1998	Requirements for equipment used in systems with digital communicators using the public switched telephone network
EN50136-2-4: 1998	Requirements for equipment used in systems with digital communicators using the public switched telephone network
EN50136-1-5: 1998	Requirements for PSN
EN 50131-1:2006+A1: 2009	General requirements for Alarm
EN54-21: 2006	Part 21 - Alarm Transmission and fault warning routing equipment
EN54-2: 2006	Part 2 – Control and indicating equipment
EN54-21: 2006	Part 4 – Power supply equipment. Incorporating Amendment No. 1: 2002
PD 6662: 2010	Scheme for the application of European standards for intrusion and hold up alarm systems
BS 8243: 2010	Installation and configuration of I&HAS designed to generate confirmed alarm conditions – Code of practice
DD 263: 2010	I&HAS – Commissioning, maintenance and remote support – Code of practice
BS 8418: 2010	Installation and remote monitoring of detector-activated CCTV systems – Code of practice
BS 5979: 2001	Remote centres receiving signals from fire and security systems – Code of practice
BS EN 60950-1	Safety of information technology equipment
TBR21	Public Switched Telephone Network Standard

The product is compliant with the following emissions standards:

Description	General Standard	Referenced Standard
Radiated disturbance	EN 61000-6-3:2007	EN 55022:2006 Class B
Conducted disturbance, ac port		
Conducted disturbance, telecom port		
Mains harmonics		EN 61000-3-2:2006 Class A
Mains voltage flicker (d max = 4%)		EN 61000-3-3:1995 including A1: 2001 & A2:2005

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Annex C continued

The product is compliant with the following immunity standards:		
Description	General Standard	Referenced Standard
Radiated RF interference	EN 50130-4:1995 inc A1: 1998 & A2: 2003	EN 61000-4-3:1996
Fast transient bursts		EN 61000-4-4:1995
Surge		EN 61000-4-5:1995
Conducted RF field		EN 61000-4-6:1996
Voltage dips and interruptions		EN 61000-4-11:1994
Radiated RF interference	EN 50136-2-1:1998	EN 61000-4-3:1996



Signed by.....


Name Philip Meredith
 Position Technical Director
 Done at 11 Kingfisher Court, Newbury, United Kingdom
 On January 5th 2011



CE marks for EN54-21 Fire

WebWay GPRS/PSTN Fire

WebWay IP/GPRS LPS LPS Fire

 0832
WebWayOne Ltd, 11 Kingfisher Court Newbury, Berkshire, RG17 7DG 2011 EC certification of conformity number 0832 – CPD - 1566
EN 54-21 :2006 Alarm transmission and fault warning routing equipment WebWay GPRS/PSTN LPS Fire Type 2 Technical data: see Doc. 12-0031 held by WebWayOne Ltd

 0832
WebWayOne Ltd, 11 Kingfisher Court Newbury, Berkshire, RG17 7DG 2011 EC certification of conformity number 0832 – CPD - 1566
EN 54-21 :2006 Alarm transmission and fault warning routing equipment WebWay IP/GPRS LPS Fire Type 1 Technical data: see Doc. 12-0031 held by WebWayOne Ltd

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Annex D – Conformance statements relating to LPS 1277

Compliance with clause 7.2.1 of EN54-21

This installation and user documentation provides the general description of the equipment including the functions relating to the relevant parts of EN54 and associated ancillary functions.

The product complies with CISPR A (Commercial) with any combination of interfaces fitted.

The product complies with CISPR B (Domestic) when either the PSTN ATS interface or the DCM is fitted.

Alarm transmission and acknowledgement times – EN54-21:2006

In order to comply with requirements of EN54-21 7.4.1 a hard wired fire alarm input must use pin 1 to ensure that in the event of the fire alarm being triggered at the same time as any other event, the fire alarm will be transmitted first.

Where the WebWayOne SPT is installed in a separate enclosure to the fire alarm system and using a serial interface for the transmission of the fire alarm and fire fault conditions, then the interface must operate in compliance with the requirements of EN54-21 clause 5.3b4.

Availability classification

In all configurations the WebWay Alarm Transmission System will identify paths and ATS that do not meet availability classification A4 as specified in EN 50136-1-1.

The WebWay Alarm Transmission System provides management information systems so that ATS's not meeting the necessary performance levels can be identified and steps taken to resolve the causes. WebWayOne issues regular reports for Alarm Companies to maximise the availability of all ATP and ATS

Fault detection and reporting - General

The WebWay IP/GPRS and GPRS/PSTN shall detect all appropriate fault conditions within the times specified in EN 50136-2-1. These include failure of the interconnection between the SPT and the CIE. Typically fault conditions are detected in less than 10 seconds and reported within the normal alarm transmission times.

Input and output signal requirements

The specification of the various inputs and outputs to the WebWay SPT are as follows:

Ethernet interface – in compliance with the relevant industry standards for a 10BaseT Ethernet interface

GSM/GPRS interface – in compliance with the statutory requirements for this type of interface.

Serial panel interface – RS232 configuration – compliant with the electrical specification for this type of interface (RS232 – V24/V28) at the data rate for the panel configuration used.

Serial panel interface – RS485 configuration - compliant with the electrical specification for this type of interface (RS485/RS422) at the data rate for the panel configuration used.

Serial panel interface – TTL configuration – compliant with a TTL type interface running on a 3.3V supply rail but tolerant to 5.0V logic levels.

Hardwired outputs – open collector outputs requiring an external pull up load. Maximum current sink per output is 30mA. Maximum voltage, output terminal to ground is 30VDC.

Hardwired inputs 1 to 8 – In 'End of Line' mode the inputs will detect and report open circuit, short circuit, alarm and restore states.

Hardwired inputs 9 to 16 -

Open circuit	loop >100k
Short circuit	loop <5R
Alarm state	10k +/-5%
Restore state	14k7 +/-5%
Tamper	5R < loop < 10k-5%
10k+5% < loop < 14k7-5%	
14k7+5% < loop < 100k	

Hardwired inputs 8 to 16 – Maximum input voltage is 30VDC. Input threshold high to low is 2.0VDC. Input threshold low to high is 4.0VDC.

Tamper, battery fail and mains fail inputs – same as for hardwired inputs.

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Power requirements - General

Any enclosure supplied with the WebWay will be compliant with the appropriate EN 50131-1 I&HAS Grade.

If the WebWay is to be installed in an enclosure provided by the client, then the following power supply requirements must be considered.

The WebWay will operate from any power source in the range 10 to 35VDC. It will not operate from an AC voltage source.

Current consumption	WebWay Serial	WebWay Modem capture
12VDC supply system	160mA	220mA
24VDC supply system	100mA	150mA

Power connection requirements – EN54

For use in EN54 compliant installations where it is necessary to supply the routing equipment from two separate power sources, it is sufficient to common the 0V/power ground connection and to combine the two +ve power sources via two suitable diodes. The current rating for the diodes should be at least 1.0A continuous with a reverse voltage rating of at least 40V.

Use of alarm transmission system on shared networks.

Note that in accordance with the requirements of the EN standards it is acceptable for the WebWay to be connected to an Ethernet network which is shared with other applications as long as a) the recommendations for connection to the network given in the 'Step by step installation guide' are followed and b) the end user is informed that if they make changes to the Ethernet network and router they may cause the system to report an Ethernet transmission failure.

The information in this section defines the statutory requirements for the equipment, installation system design and support services. The WebWayOne Alarm Transmission System is compliant with the relevant clauses of the following alarm transmission systems, alarm transmission equipment, emissions, and immunity standards.

Additional conformance statement

WEEE

