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# Response Plus & Link Paging Systems Data Sheet



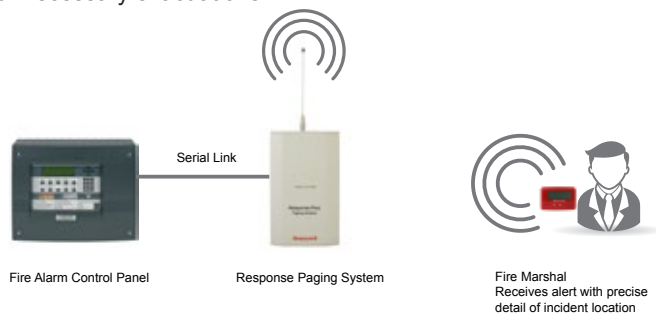
**The Response Paging System offers the latest innovations in wireless paging and monitoring. It's a cost effective and flexible system that provides the ability to quickly identify, validate and respond appropriately to activated alarms.**

Unnecessary evacuations have a significant impact on commerce and industry in terms of interrupted productivity, downtime and loss of revenue. They are also a considerable drain on the resources of the Fire and Rescue Services both in terms of lost time and costs.

- Save money and time by reducing evacuations through quickly identifying triggered alarms
- Improve response times by enabling personnel to identify the exact location of an alarm
- Sustain productivity, output and sales through the avoidance of unnecessary evacuations
- Enhance safety by improving the coordination of evacuations
- Build better relationships with the local fire authority

**Response Plus** paging system has a wide range of applications that will fit all types of industries requiring a paging network. It can also be integrated with Notifier by Honeywell fire detection systems that immediately notifies designated fire marshals exactly where an alarm has been triggered by displaying the fire

panel device message, thus ensuring alarms can be identified and validated quickly, reducing time and costs associated with unnecessary evacuations.



The Response Plus can be used to support four volt-free volt free contacts and serial data input. The contacts can be set to normally open N/O or normally closed N/C as required. When activated these will send pre-programmed messages to a particular pager address (which could be to an individual pager or group of pagers at the same time).

**Response Link** is an entry level paging system suitable for a range of applications. It includes 4 volt-free contact alarm outputs that provide basic emergency information whilst offering the same paging capability.

The Response Link supports 4 volt-free volt free contacts, which can be set to normally open N/O or normally closed N/C as required.

This document is not intended to be used for installation purposes. Every care has been taken in the preparation of this document but no liability can be accepted for the use of the information therein. Design features may be changed or amended without prior notice.  
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ISO9001  
 Design, Manufacture and  
 Supply to Quality Manage-  
 ment Systems Certified to  
 ISO9001:1994





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## Response Plus Paging System

The Response Paging Systems consist of wall-mounted HIPS (High Impact Polystyrene) enclosure containing a transmitter enclosed in an aluminium surround. The units includes a 230-volt 3-pin plug, status indicator LED for Power and Transmission, and straight wire antenna, connected to the top of the enclosure using a 3/8 BNC bayonet connection.

The Response Plus can be used to support four volt-free volt free contacts and serial data input. The contacts can be set to normally open N/O or normally closed N/C as required. When activated pre-programmed messages will be sent to a particular pager address (which could be to an individual pager or group of pagers at the same time).

- Powerful 4W transmitter
- Compatible with the Notifier serial protocol
- Status indicator LED for Power and Transmission
- 230V AC mains power supply with fused spur option
- Antenna (dipole) installed external to equipment enclosure
- RS232 data port input
- RS232 data port programming
- Four contact closure alarms
- Alphanumeric Pagers (supplied separately)



## Specifications

### Response Plus Paging System HLS-RES-PL

#### Mechanical Specification

- Height 26.2 cm
- Width 15.5 cm
- Depth 5.0 cm

#### Electrical Specification

- Power supply 230v AC
- Power output 500mW to 4W  $\pm$ 1dB 50  $\Omega$
- Power usage
  - Sleep: 40mA
  - Transmit: 1.2A approx
- Frequency Range UHF: 427.5 - 475MHz, synthesized
- Channel Spacing 12.5kHz or 25kHz
- Baud Rate (Transmission) 512 or 1200 Baud
- Transmit Message Format POCSAG
- Message Length Up to 240 characters in total

#### System Connectivity

- Interface RS232 serial connection to Notifier Control Panel + 4 volt-free contacts
- Programming Serial connection, 9600 Baud N:8:1 (for changing unit parameters and message output)
- Data Input Paging Protocols In addition to Notifier RS232 link, supports SALCOM, Scope, ESPA, Ascom

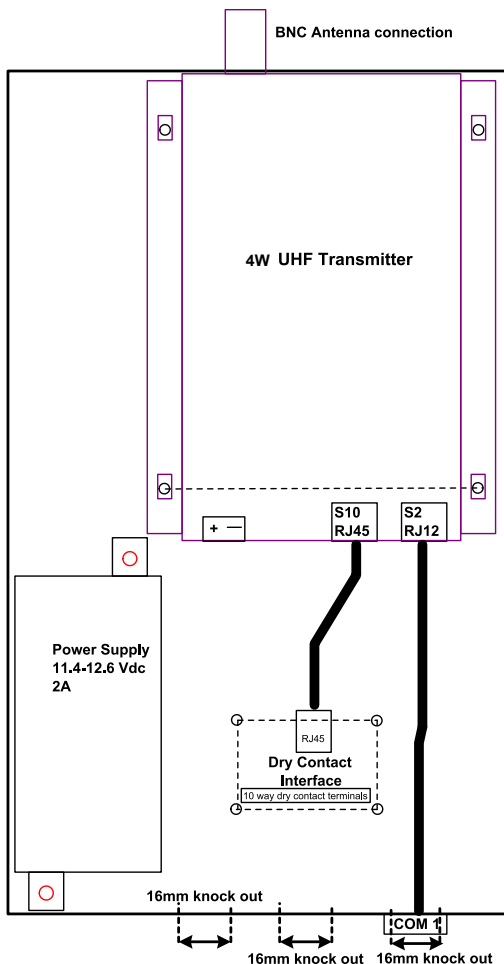
#### Environmental Specifications

- Operating Temperature -10°C to +60°C

#### Optional Additions

(Technical approval required prior to order)

- Telephone interface
- 32 input volt-free contact expansion
- 25 Watt amplifier





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## Response Link Paging System

The Response Paging Systems consist of wall-mounted HIPS (High Impact Polystyrene) enclosure containing a transmitter enclosed in an aluminium surround. The units includes a 230-volt 3-pin plug, status indicator LED for Power and Transmission, and straight wire antenna, connected to the top of the enclosure using a 3/8 BNC bayonet connection.

The Response Link is an entry level paging system that supports 4 volt-free volt free contacts, which can be set to normally open N/O or normally closed N/C as required.

- 500mW Transmitter
- Compatible with the Notifier serial protocol
- Status indicator LED for Power and Transmission
- 230V AC mains power supply with fused spur option
- Antenna (dipole) installed external to equipment enclosure
- Three contact closure alarms
- Alphanumeric Pagers (supplied separately)



## Specifications

### Response Link Paging System HLS-RES-LI

#### Mechanical Specification

- |          |         |
|----------|---------|
| • Height | 26.2 cm |
| • Width  | 15.5 cm |
| • Depth  | 5.0 cm  |

#### Electrical Specification

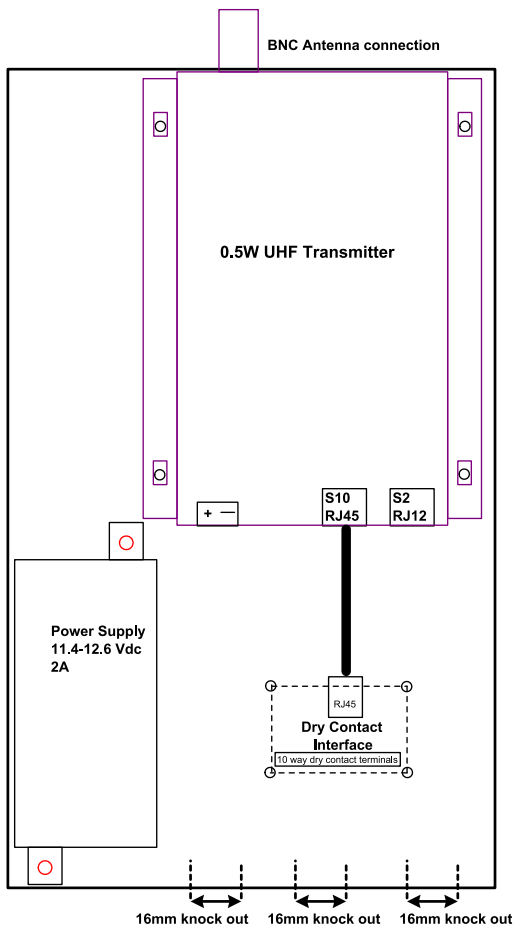
- |                            |                                      |
|----------------------------|--------------------------------------|
| • Power supply             | 230v AC                              |
| • Power output             | 500mW                                |
| • Power usage              | Sleep: 40mA<br>Transmit: 1.2A approx |
| • Frequency Range          | UHF: 427.5 - 475MHz, synthesized     |
| • Channel Spacing          | 12.5kHz or 25kHz                     |
| • Baud Rate (Transmission) | 512 or 1200 Baud                     |
| • Transmit Message Format  | POCSAG                               |
| • Message Length           | Up to 240 characters in total        |

#### System Connectivity

- |               |   |
|---------------|---|
| • Interface   | 4 volt-free contacts  |
| • Programming | Serial connection,<br>9600 Baud N:8:1<br>(for changing unit parameters<br>and message output) |

#### Environmental Specifications

- |                         |                |
|-------------------------|----------------|
| • Operating Temperature | -10°C to +60°C |
|-------------------------|----------------|





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## Response Pager

The Response pagers are simple, compact and discreet personal devices for short messages. They're lightweight, comfortable to wear and come with a robust belt/pocket clip.

### Key Features

- Simple, compact and discreet personal device
- Durable, rugged and reliable
- Lightweight and comfortable to wear
- Easy to read alphanumeric text
- Protective case
- Bright backlight
- Easy to replace batteries
- Low battery indication
- Unread message indication
- Robust belt clip
- Display Screen protector



### Specifications

#### Response Pager HLS-RES-PAGRD

- |                   |  |
|-------------------|--|
| • Frequency range | 440-470Mhz                                   |
| • Dimensions      | 75mm x 51mm x18mm                            |
| • Weight          | 65g (inc Battery)                            |
| • Display         | 12 Line x 18 alphanumeric English characters |
| • Memory          | Up to 60 messages                            |
| • Format          | POCSAG, FLEXTM                               |
| • Power supply    | AAA Battery                                  |
| • Battery life    | 30 days without switching off                |

## Response Wrist Watch Pager

The wrist watch pager allows users to respond to alerts quickly and easily with added comfort. The colour LED alphanumeric display can read up to 22 characters and includes alert modes: sound, vibrate and LED.

### Key Features

- Hand and PC programmable / USB ID programmer
- PLL or crystal, 137-930 MHz, POCSAG or Flex
- Alert modes: sound, vibrate, LED, silent
- 4 or 8 line English display, 3 zoom modes (English). Single colour or double colour
- Language support: Chinese, English, German, Korean, Turkish, Farsi, French
- Out of range, low battery, repeat message and unread message indicators
- Menu selectable, user choice special functions
- Second watch function
- Rechargeable Li battery



### Specifications

#### Response Wrist Watch Pager HLS-RES-PAGWA

- |                         |  |
|-------------------------|--|
| • Frequency range       | 138-930 MHz  |
| • Cap codes             | 8  |
| • Receiver type         | Synthesized or crystal                                   |
| • Baud rate             | 512, 1200, 2400 bps                                      |
| • Paging sensitivity    | -106dB @ 512 bps / -105DB@1200 bps/<br>-104dB @ 2400 bps |
| • Channel spacing       | 25 KHz or 12.5 KHz                                       |
| • Frequency deviation   | +/- 4.5 KHz  |
| • Frequency stability   | +/- 10 PPM   |
| • Selectivity           | > 55dB   |
| • Image rejection       | > 52db   |
| • Spurious rejection    | > 52db   |
| • Intermediation        | > 50db   |
| • Alert tone volume     | 72dB+ @ 12 inch  |
| • Weight                | 60g with battery   |
| • Display               | 16 characters per line, 22 characters max.               |
| • Dimensions            | 45mm x 46mm x 14mm                                       |
| • Memory capacity       | Up to 19 messages (3000 characters)                      |
| • Battery type          | Rechargeable Li battery                                  |
| • Operating Temperature | -10°C to 15°C  |



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## Response Rechargeable Pager

The Response Rechargeable Pager is compact, convenient and offers discreet text messaging.

### Key Features

- Ultra reliable crystal pager
- Rechargeable with a simple 4 line display
- Vibration, Tone and Flash alert available
- 20 message memory with side function button
- 8 programmable pre-set messages
- Programmable alert time (15 seconds, 30 seconds, 60 seconds, 120 seconds)
- Save money on replacement batteries
- Docking stations charge your pagers whilst not being used ensuring reliability and efficiency. Available with either 6 or 12 slots.



### Specifications

#### Response Rechargeable Pager HLS-RES-PAGRCH

- |                     |                              |
|---------------------|------------------------------|
| • Pager type        | Alphanumeric pager           |
| • Frequency         | 461.475 MHz                  |
| • Baud Rate         | 512 or 1200                  |
| • Code format       | POCSAG                       |
| • Channel spacing   | 25 KHz                       |
| • Sensitivity       | 5 uV / m                     |
| • Selectivity       | 60 dB @ +/- 25 KHz           |
| • Modulation scheme | FSK                          |
| • Programming ID    | 2 Groups ID and 1 individual |



### General

- |             |   |
|-------------|---|
| • Colour    | Cranberry                                 |
| • Lens      | Honeywell                                 |
| • Clip      | Regular beltclip                          |
| • Dimension | L 92mm<br>W 54mm<br>D 19mm (without clip) |
| • Weight    | 90 g                                      |



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## Output Control Paging Receiver

The Output Paging Receiver is a high sensitivity, ultra low current paging receiver offering a cost effective remote switching solution which is simple to install and can be configured using any serial terminal program. It's a high sensitivity, ultra low current paging receiver which is able to control a single on-board relay and two open collector outputs. It is available in two versions, a VHF 12-88-7150 and a UHF 12-88-7450, both decoding 512 or 1200 baud, alphanumeric or numeric control messages.

## Key Features

- Control equipment by turning the on-board relay on or off upon receipt of a control command.
- Control low current equipment or external relays by switching the open collector outputs independently upon receipt of an appropriate control command.
- Send the commands to a PC via the serial output of the paging receiver for remote serial control applications.



## Specifications

### Output Control Paging Receiver HLS-RES-REC

- Dimensions: 66mm x 50mm x 26mm
- Frequency range: 440-470Mhz
- Frequency Bands: VHF: 136 - 174MHz  
UHF: 440 - 470MHz
- Enclosure: Plastic with mounting holes
- Supply Voltage: 10v to 17v, Nominal 12V.  
(If relay operation is not required 4-17V can be used)
- Outputs: 3. One relay and two open collector
- Current drain: Receive average 5mA plus 18mA when relay energised
- Relay contacts: 1Amp @24VDC  
(Not suitable for 230VAC connection)
- Open collector max. sink: Outputs 2 and 3 can sink up to 80mA each
- Environmental Protection: Needs protection from weather
- Frequency selection: Synthesized, user selectable
- RX sensitivity: Approximately -121dBm
- Receive Bandwidth: 10kHz (suitable for 12.5kHz operation)
- Serial connection: 9600 Baud N:8  
(for changing unit parameters and message output)
- Aerial connection: Internal PCB, or external matched wire as required
- Paging Protocol: POCSAG 512 or 1200 baud
- Temperature limits: -10°C to +50°C

## Duplex Repeater

The Duplex Repeater is a purpose designed repeater for the Honeywell Response Paging System. It is designed to extend radio coverage with the Response Paging family on fire event messages.

The repeater receives and transmits wirelessly and includes two dipole antennas; one for the receive connection and one for the transmit connection.



## Specifications

### Duplex Repeater HLS-RES-REPEAT

- Dimensions: 272mm x 258mm x 78mm Power Supply
- RF Frequency: UHF: 450 - 470 MHz
- Power Supply: AC power supply 100 – 240V AC 50/60Hz 0.7A
- Internal DC: Voltage Supply +13.5 V nom, +11.5 V to 15.2 V  
Input Current Standby 100mA, Transmit: 1.3A approx
- Channel Spacing: 12.5 kHz
- RF Output Power: Up to 4 watt  
(Site survey requirement dependant)
- Modulation: Carrier FSK with NRZ data
- Deviation: ±2.25 kHz or ±4.5 kHz
- Paging Baud Rate: 512 or 1200
- RX Sensitivity: Approx -124dBm
- Spurious Outputs: -37dBm or less
- Type Approvals: AS/NZS4769, EN 300 224, FCC Pt 90
- Paging Protocol: POCSAG
- Temperature Limits: -10°C to +50°C



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## Site Survey Kit

The Response Paging Site Survey Kit is a simple and convenient solution for those conducting regular paging site surveys.

The Response Paging Site Survey Kit offers an all-in-one solution for those conducting regular paging site surveys. It comes in a lightweight and robust case that makes for safe and convenient transportation whilst also providing quick and easy set up to the user.

## Key Features

Kit includes: Rugged case, 4w transmitter, pager, programming software, dipole antenna, power lead and USB lead

- Convenient and lightweight all-in-one kit
- Quick set up (no PC required on site)
- 4w transmitter as standard
- Flexibility to decrease to 500mW using the provided software (used for Response Link site surveys).








## Specifications

### Site Survey Kit HLS-RES-SK

- Dimensions (LxWxD): 361mm x 289mm x 165mm
- Power Supply: 230VAC or 12v battery (min 3.2 amps)
- Frequency Range: UHF: 427.5 - 475MHz, synthesized
- Channel Spacing: 12.5kHz or 25kHz
- Power Output: 500mW to 4W  $\pm$ 1dB 50  $\Omega$
- Baud Rate (Transmission): 512 or 1200 Baud
- Pager Transmit  
Message Format: POCSAG

## Product Range at a Glance

Description	Item Code
<b>Response Paging Systems</b>	
 Response Aid Paging System - not required for DDA/Equalities Act Compliance (Serial Interface & Volt-free Contacts)	HLS-RES-AI
 Response Plus Paging System	HLS-RES-PL
 Response Link Paging System	HLS-RES-LI
Response Radio Paging Licence ( 5 Years )	HLS-RES-LICENCE
The Response Aid System is also available in a DDA/Equalities Act Compliant variant (Volt-free Contacts Only) . This variant offers functionality specifically for systems where DDA/Equalities Act compliance is required. Part numbers are the same - please specify if DDA/Equalities Act compliance is required when ordering.	
<b>Response Pagers</b>	
 Pager (Black) - Standard (not to be used with a DDA/Equalities Act compliant system)	HLS-RES-PAGBL
 Pager (Red) - Standard (not to be used with a DDA/Equalities Act compliant system)	HLS-RES-PAGRDR
 Wrist Pager (Black) - Standard (not to be used with a DDA/Equalities Act compliant system)	HLS-RES-PAGWA
 Rechargeable Pager - Standard (not to be used a with a DDA/Equalities Act compliant system)	HLS-RES-PAGRCH
Our range of Response pagers are also available in "DDA/Equalities Act compliant" variants. These variants offer functionality specifically for systems where DDA/Equalities Act compliance is required. Part numbers are the same - please specify if DDA/Equalities Act compliance is required when ordering.	
 6 Way Rechargeable Docking Station	HLS-RES-PAGRDR
12 Way Rechargeable Docking Station	HLS-RES-PAGWA
<b>Accessories</b>	
Response Plus/Aid 25 Watt Amp	HLS-RES-AMP
 Full Duplex Repeater UHF RX/TX 4 Watts	HLS-RES-REPEAT
 Output Control Paging Receiver c/w PSU	HLS-RES-REC
Response Plus Interface Unit 4 Contacts	HLS-RES-INT4
Response Plus/Aid Interface 32 Contacts	HLS-RES-INT32
 Response Straight Wire Antenna	HLS-RES-ANT1
 Response Dipole Antenna with 5mtrs cable	HLS-RES-ANT2
 Response Programming Software & Cable	HLS-RES-COM
 Response RS232 ( 9 Pin DB ) Spare Cable	HLS-RES-Cable
Spare Power Supply for Rechargeable Docking Stations	HLS-RES-CHPSU
1 x Spare Battery	4015-517
 Response System Survey Kit	HLS-RES-SK



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