N NOTIFIER®
by Honeywell

Response Aid Paging System
Data Sheet

The Response Aid Paging System provides an easy-to-use, cost effective solution to support deaf and hard of hearing people in case of a fire emergency. The device is set to Equality Act 2010 recommendations sending a strong vibration to every pager together with a text message alerting the user of a fire evacuation.

- Meets Equality Act 2010 requirements for alerting the deaf and the hard of hearing*

- Improves your duty of care and welfare of your customers and staff

- Ensures safer, simpler and quicker evacuations

- Easy to use with clear and simple fire alert instructions

- Reduces the risk associated with evacuating deaf and hard of hearing people

- Provides independence and reassurance to those unable to hear fire alarms

- Adheres to BS5839

The Response Aid paging unit consists of a wall-mounted HIPS (High Impact Polystyrene) enclosure containing a 4 watt transmitter enclosed in an aluminium surround. It 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.

Serial Link

Fire Alarm Control Panel   Response Paging System   Deaf or Hard of Hearing Occupant
Receives vibrating alert with
alarm text message
to ensure they are aware of an
evacuation

The unit has the capability of 3 volt-free contacts and one serial RS232 data port input which is not programmed as standard on the Response Aid Unit.

In the event of transmitter failure, power supply failure and a loss in power output from the transmitter, there is a Fault output normally closed alarm accessible via internal terminal header. This is to be connected back to the fire alarm panel to alert the fire alarm panel of any failures.

The system includes battery backup as standard. In the event of a 230 volt mains failure a stand-by battery will support the system for >24 hours in non-alarm plus thirty minutes in alarm. There is a low voltage detection sounder which will alert in the event of low battery.

*Equality Act 2010 recommendations require all UK employers make a provision for disabled staff and customers in the area of fire safety.

For after Sales support Contact:
BDS FIRE Shepley House Restmor Way
Hackbridge Surrey SM6 7AH
Tel 020 8773 3377
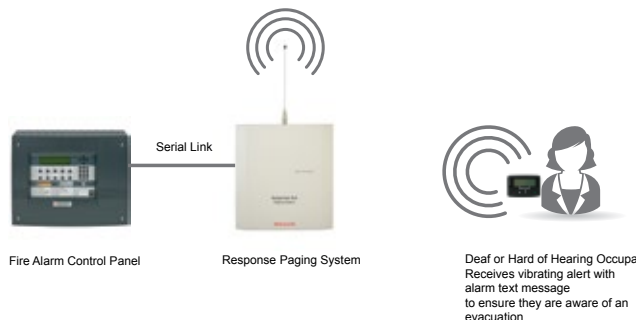E: info@bds-fire.co.uk   W: www.bds-fire.co.uk

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- Adheres to BS5839 and meets Equality Act 2010 recommendations
- Status indicator LED for Power and Transmission
- Antenna (dipole) installed external to equipment enclosure
- RS232 data port input
- RS232 data port programming
- Three contact closure alarms
- Normally Closed Contact – Monitoring output (to Fire Panel)

- Monitored power output
- Alphanumeric Pagers
- Compliance with the requirements of BS5839 part 1 low battery audible alarm in the event of mains failure
- Out of Range/No service indication to pagers
- Compatible with the Notifier serial protocol
- A 230-volt 3 pin plug (fused spur option)

Specifications
Response Aid Paging System

Mechanical Specification

- Height   27.2 cm
- Width   25.8 cm
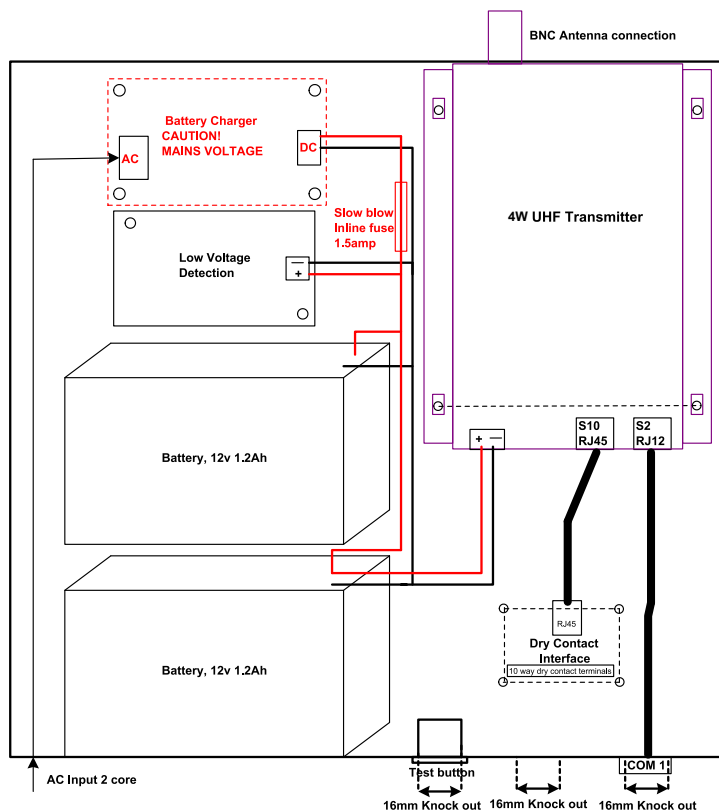- Depth   7.8 cm

Electrical Specification

Power supply		100-240v AC
Power output		500mW to 4W ±1dB 50 Ω
Power usage	Sleep:	40mA
	Transmit:	1.2A approx
Frequency Range	UHF:	427.5 - 475MHz, synthesized
Channel Spacing		12.5kHz
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 + 3 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

BNC Antenna connection

Battery Charger
CAUTION!
MAINS VOLTAGE

AC   DC

Slow blow
Inline fuse
1.5amp

4W UHF Transmitter

Low Voltage
Detection

− +

Battery, 12v 1.2Ah

+ −

S10 RJ45   S2 RJ12

Battery, 12v 1.2Ah

RJ45

Dry Contact Interface
10 way dry contact terminals

AC Input 2 core

Test button

16mm Knock out   16mm Knock out   16mm Knock out

COM 1

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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-PAGBL

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
- Rechargable 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/ -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	Rechargable 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 effieciency. 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
                          W 54mm
                          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.

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.

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 independantly 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

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
   Input Current Standby
	+13.5 V nom, +11.5 V to 15.2 V
	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 ±1dB 50 Ω
- Baud Rate (Transmission): 512 or 1200 Baud
- Pager Transmit
  Message Format: POCSAG

Product Range at a Glance

Description	Item Code
Response Paging Systems	
Response Aid Paging System required for DDA/Equalities Act Compliance (Volt-free Contacts Only)	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 standard variant (Serial Interface & Volt-free Contacts) This variant offers additional functionality for systems where DDA/Equalities Act compliance is not required. Part numbers are the same - please specify if DDA/Equalities Act compliance is required when ordering

Description	Item Code
Response Pagers	
Pager (Black) - DDA/Equalities Act compliant	HLS-RES-PAGBL
Pager (Red) - DDA/Equalities Act compliant	HLS-RES-PAGRD
Wrist Pager (Black) - DDA/Equalities Act compliant	HLS-RES-PAGWA
Rechargeable Pager - DDA/Equalities Act compliant (Docking Station sold separately)	HLS-RES-PAGRCH

Our range of Response pagers are also available in "standard" variants. These variants offer additional functionality for systems where DDA/Equalities Act compliance is not required. Part numbers are the same - please specify if DDA/Equalities Act compliance is required when ordering.

Description	Item Code
6 Way Rechargeable Docking Station	HLS-RES-PAGRD
12 Way Rechargeable Docking Station	HLS-RES-PAGWA
Accessories	
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