Paging System Datasheet

Response Aid Paging System

Product Overview

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 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 240-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 unit has the capability of 3 dry 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 for a minimum 24 hours after mains power failures. There is a low voltage detection sounder which will alert in the event of low battery.

Key Features

- The paging system consists of a wall-mounted High Impact Polystyrene enclosure containing 4-watt transmitter enclosed in aluminium surround

- Adheres to BS5839 and meets Equality Act 2010 recommendations

- Status indicator LED for Power and Transmission

- An antenna (dipole) installed external to equipment enclosure

- RS232 data port input

- RS232 data port programming

- Four 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 Morley ZXSe or DXc, RS232 serial protocol

- A 240-volt 3 pin plug (fused spur option)

MORLEY IAS
FIRE SYSTEMS
by Honeywell
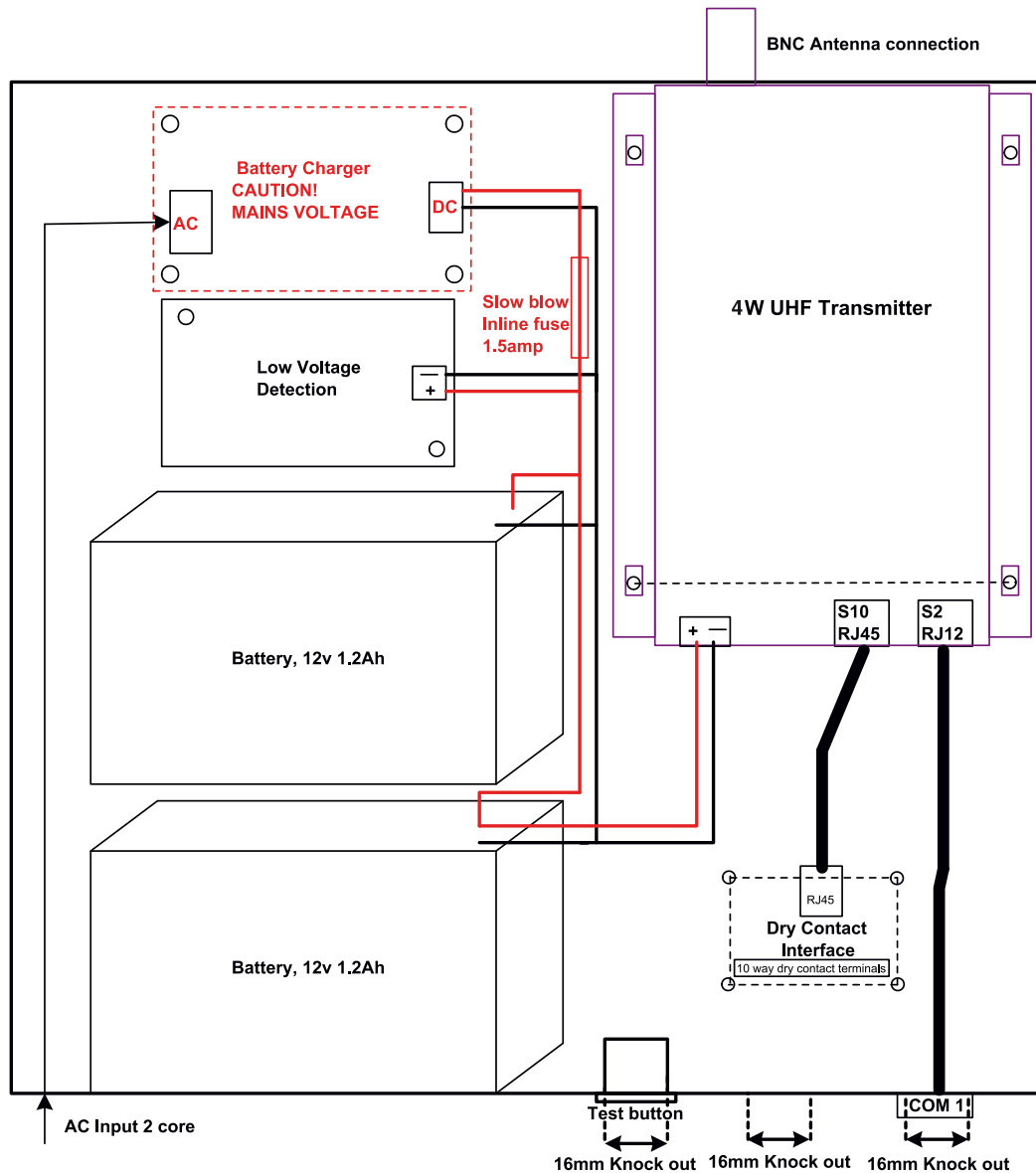
SPECIFICATION

<div align="center">

RESPONSE AID

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Electrical

Power Supply	100-240VAC
Frequency Range	UHF: 427.5 - 475MHz, synthesized
Channel Spacing	12.5kHz
Power Output	500mW to 4W ±1dB 50 Ω
Baud Rate (Transmission)	512 or 1200 Baud
Transmit Message Format	POCSAG
Message Length	Up to 240 characters in total
Power Usage	Sleep: 40mA Transmit: 1.2A approx
Temperature Range	-10°C to +60°C
Case Dimensions	272mm x 258mm x 78mm (LxWxD)
Interface	RS232 serial connection to either ZXSe or DX Connexion Control Panels + 3 dry contacts
Programming Connection	9600 Baud N:8:1 (for changing unit parameters and message output)
Data Input Paging Protocols	In addition to the Morley ZXSe or DX Connexion Control Panels the Response Plus Paging system can be connected via a serial link to any fire panel that currently supports SALCOM, Scope, ESPA or Ascom paging systems

Back-Up System

In the event of a 230 volt mains failure to the system the alarm device can incorporate a stand-by battery, which will support the system for >24 hours in non-alarm plus thirty minutes in alarm.

Schematic

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

Battery, 12v 1.2Ah

+ −

S10
RJ45

S2
RJ12

RJ45

Dry Contact
Interface
10 way dry contact terminals

Test button

COM 1

AC Input 2 core

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

DESCRIPTION   ORDER CODES

Description	Order Codes
Response Aid Paging System	HLS–RES–AI
Response System Survey Kit	HLS-RES-SK
Response Aid Interface 32 Contacts	HLS-RES-INT32
Response Dipole Antenna with 5mtrs cable	HLS-RES-ANT2
Response Programming Software & Cable	HLS-RES-COM
Pager Black	HLS-RES-PAGBL
Wrist Pager (Black)	HLS-RES-PAGWA
Response Radio Paging Licence (5 Years)	HLS-RES-LICENCE
1 x Spare Battery	4015-517-Y