

Radio Pager System

For Apollo Protocol Analogue Addressable Control Panels



Key Features

- ◆ Ideal for use with Control Equipment's Voyager, Discovery & Nexus analogue addressable control panels
- ◆ Both text and numeric messages transmitted
- ◆ Up to 4 lines of information may be displayed on the pager
- ◆ Each line can display up to 16 characters
- ◆ Pagers display fire and fault conditions
- ◆ Up to 9,999 pagers can be supported on the system
- ◆ Multiple message memories
- ◆ Multiple beep types
- ◆ Capable of date stamping each message

From the UK's leading control panel manufacturer



Assessed to ISO 9001: 2000
Certificate number 018

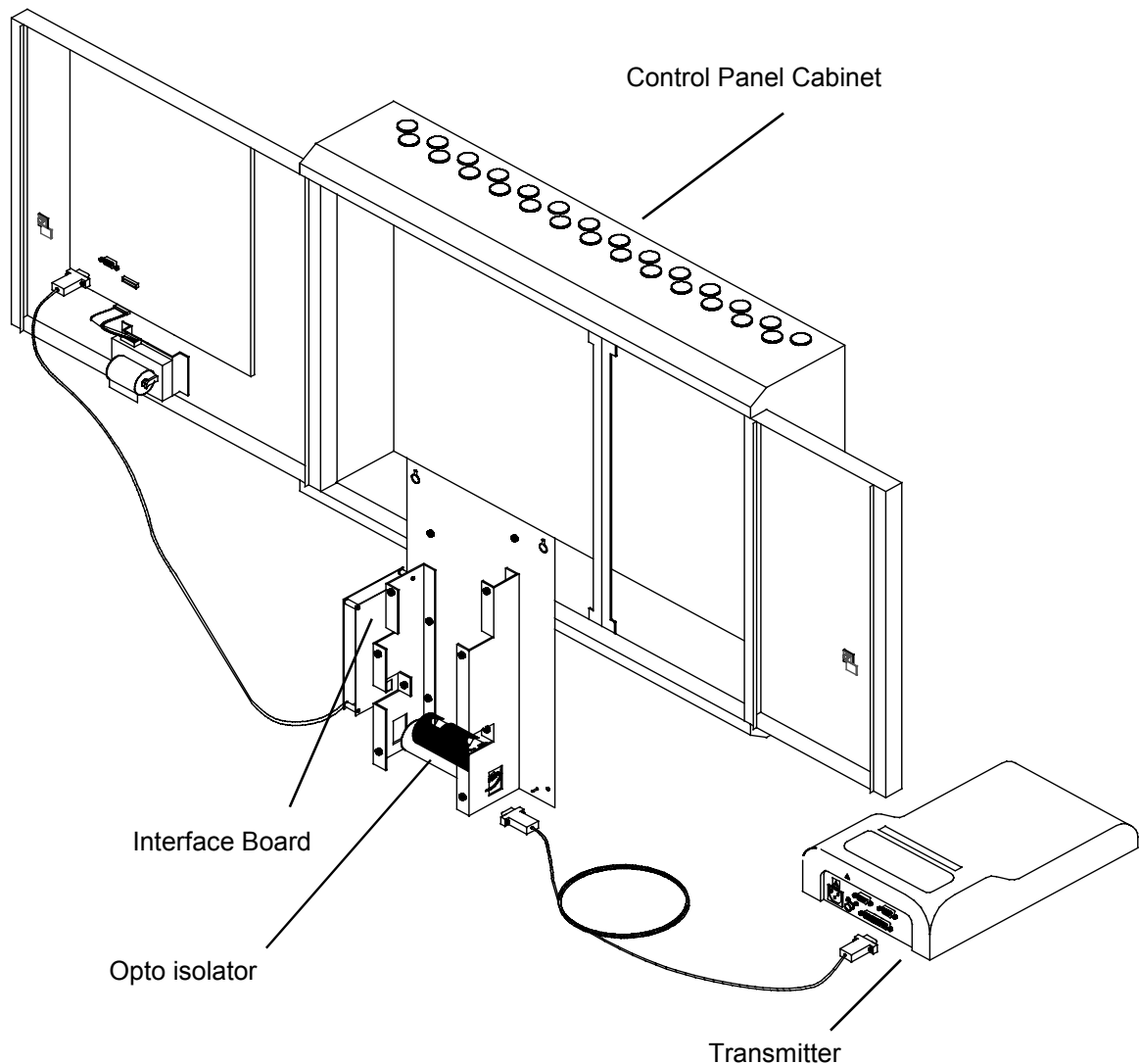


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Introduction

The radio pager system, when connected to the analogue addressable control panels, can be used to transmit both text and numeric messages direct to pocket pagers. Pagers will display Fire/Fault conditions including Sensor location text. Up to 9,999 pagers can be connected to the ConneXions unit.

The ConneXions unit is a POCSAG data display radio paging system. The standard transmitter can quite easily extend up to a range of 1 mile and will provide good propagation on most industrial sites, covering an area with just a quarter wave antenna connected directly to the unit. If coverage of more than a mile is required, other antennae are available. The UCI unit is designed to interface data from the panel to the ConneXions unit. This unit is programmed to monitor data from the panel's parallel printer port. This data in turn is formatted into a valid paging command, then sent to the ConneXions transmitter for onward transmission to the selected pager.



Technical Introduction

The radio pager system set up has four separate units which are as follows:-

- **ConneXions Unit**
- **UCI Unit**
- **Opto Isolator**
- **Pager**

ConneXions Unit

The ConneXions unit is a POCSAG data display radio paging system that can be used to transmit both text and numeric messages directly to pocket pagers. Up to 9,999 pagers can be supported on any one system. The standard transmitter can quite easily provide ranges up to a mile and will provide good propagation on most industrial sites, covering a considerable area with just a quarter wave antenna (BNC terminated) connected directly to the unit. If coverage of more than a mile is required, other antennae are available.

Note: This system requires a valid radio communications agency licence for operation in the UK. It is the user's responsibility to apply for this licence.

UCI Interface Unit

The UCI unit is designed to interface data from panel to the ConneXions unit. This unit is programmed to monitor data from the panel's parallel printer port. This data in turn is formatted into a valid paging command, then (via opto isolation) is sent to the ConneXions transmitter for onward transmission to the selected pager.

It is recommended that the maximum distance between panel and UCI unit is 1 metre and the recommended maximum distance between UCI and opto is 3 metres. These connections should be made using screen cable.

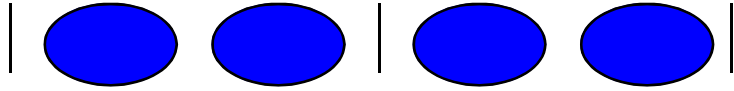
Opto Isolator

The in-line opto isolator is required to isolate ground potentials between UCI and ConneXions Unit. The opto also provides protection against spurious voltage surges and reduces mains induced noise.

Pager

The pager is an alphanumeric pager and can display up to 4 lines of information, with each line being capable of displaying up to 16 characters. The pager is equipped with multiple beep types and multiple message memories. All screens can be scrolled.

The pager is equipped with a real time clock, and is also capable of date stamping each message received.



Technical Specifications

ConneXions Mark 2 V6 Mains Operated Unit

Mains Input	230V 50Hz
Mains power Consumption	6W MA
Operating voltage	13.8V DC
Power Consumption	50mA Standby , 300mA transmit.
Internal Battery	0.7hA Battery Standby 8 Hours.
Power output	500mW
Frequency Range	450-470 MHz
Adjacent Channel	better than 200nW @ 4.5 KHz deviation
Model Number	Connexions 11 10056 V6
Transmitter Type Approval No.	10056 V6
Approvals	CE
Comms Baud Rate Port RS232	PL1 , PL2, 1200 Baud
Comms Baud Rate Port RS232	PL3 , 9600 Baud

UCI Interface Unit

Minimum D.C Voltage	5 Volts D.C (Power from Panel Printer port)
External Supply	12 Volts D.C (Optional Supply)
Power Consumption	50mA
Comms Port (input)	LPT1 Parallel Printer Port.
Comms Port (output)	COMS 2 , RS232

OPTO Isolator

Farnell Part Number	648 - 942
D.C Voltage	8 to 25 Volts D.C
Comms Baud Rate	Up to 9600 Baud Rate

Part Numbers

2500/108 Radio pager transmission unit, complete with twin doored enclosure - Space for Discovery 4 loop or Nexus 2 loop panel

2501/226 NEC 80 character message pager

Note 1: This system requires a valid radio communications agency licence for operation in the UK. It is the user's responsibility to apply for this licence.

Note 2: The complete transmission unit is also available in a separate enclosure for use with the Voyager panel subject to installation restrictions.

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PagerSL/rev2/09.04