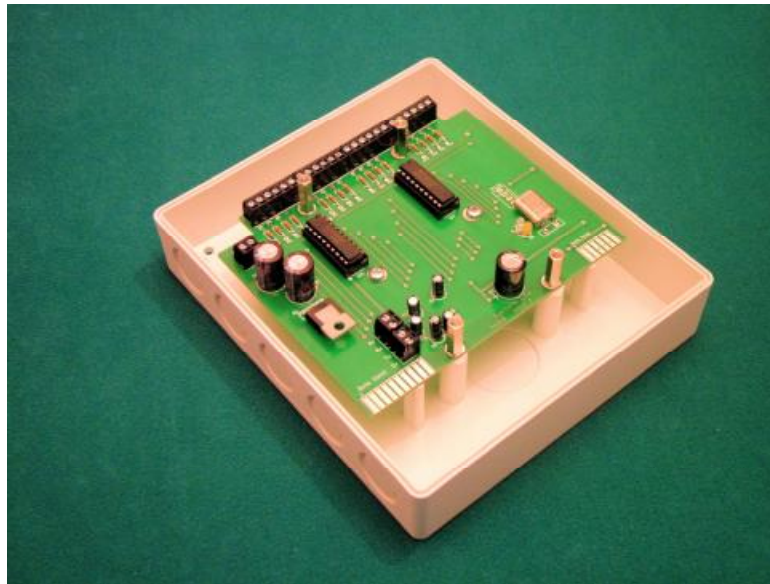


16 Way Input Card for POCSAG Transmitters



Description

The 16 Way Input Card is designed to be connected to a serial input of a POCSAG Transmitter. It will then provide 16 individually programmed inputs and a RS232 serial input. This enables the card to be inserted between a Control System paging output and the Transmitter.

Several boards can be cascaded to offer 16, 32, 48 etc inputs. Easily fitted to existing or new systems. The cards will fit between the Control System and the Transmitter

Features

- Each card is programmed by any PC with terminal software (HyperTerminal is included with Windows). No costly special software is required.
- No modifications needed for existing systems. Card fits between Control System and Transmitter.
- 'One size fits all'. All cards are identical and can be cascaded to provide 16, 32, 48 etc inputs.
- Each input is individually programmed with the following options:
Enable/Disable
Normally open/Normally closed
Pager Number
Bleep code and Message.
- Global programmable resend interval for inputs still in alarm condition.

- In programming mode 'live' input condition shown on PC. This enables the Engineer to check all input conditions instantly without the use of a meter.

Connections

The unit needs a 10 to 14 volts DC >500mA supply fused at 2 amps. The serial connections will provide receive in and transmit out from the card. 16 inputs and 8 ground connections.

Programming the inputs

The unit is programmed by connecting to a PC using HyperTerminal or similar terminal program. We recommend a terminal program from Br@y available at <http://braypp.googlepages.com/terminal>. Default settings are 9600 baud, 8 bits, 1 stop bit, no parity and no handshaking.

Power up the unit and within 9 seconds send from the PC

bob1

The blue LED will remain on and the PC screen will now show some options:

16 Way Input Card with Serial Output Ver.2.10

*XX Change Record (XX = 01 to 16)

eg. *04110016008AThis is a message

*04 = Input 4

1 = Enable

1 = Normally Open

0016008 = Pager No.

A = Bleep Code

This is a message = The Message

L List Records.

R Resend Time: 40 seconds.

X Exit.

L - List the input settings

When you enter L a list of the inputs will show on the PC screen as follows:

Input	State	Trigger	Pager	Bleep	Message
01	Open Enabled	Close	0016008	A	Input 01 Test
02	Open Disabled	Close	0016008	A	Input 02 Test
03	Open Disabled	Close	0016008	A	Input 03 Test
04	Open Disabled	Close	0016008	A	Input 04 Test
05	Open Disabled	Close	0016008	A	Input 05 Test

06	Open	Disabled	Close	0016008	A	Input 06 Test
07	Open	Disabled	Close	0016008	A	Input 07 Test
08	Open	Disabled	Close	0016008	A	Input 08 Test
09	Open	Disabled	Close	0016008	A	Input 09 Test
10	Open	Disabled	Close	0016008	A	Input 10 Test
11	Open	Disabled	Close	0016008	A	Input 11 Test
12	Open	Disabled	Close	0016008	A	Input 12 Test
13	Open	Disabled	Close	0016008	A	Input 13 Test
14	Open	Disabled	Close	0016008	A	Input 14 Test
15	Open	Disabled	Close	0016008	A	Input 15 Test
16	Open	Disabled	Close	0016008	A	Input 16 Test

If we look at the first line it starts with the input number then the state of the input. This will be useful in setting the unit up. If the input is 'Disabled' it will be ignored by the card. 'Closed' or 'Open' indicates 'NO' and 'NC' this is the trigger condition the card will use. The pager number requires the full POCSAG 7 digits. The Bleep code will be A,B,C or D no other digit is accepted. Lastly the message, it can be any valid POCSAG character with a message length up to 17 characters.

The card will exit from the programming mode after 90 seconds if no terminal data is received.

Normal operation of the card is indicated by the flashing yellow LED.

R - Resend Time

This is a global setting for all inputs and will resend the call if the input is still triggered after the interval shown. When you enter R the screen will indicate a 3 digit number is required. The range will be 020 to 199. 3 digits must be entered. The time is shown in seconds.

***xx - Input Settings**

This will change the input settings corresponding to the number entered. A breakdown of the format is shown in the "**List the inputs**" section. An example is shown below:

To change and enable input 09 for a NO contact to call pager 0123456 with bleep code B and message 'Boiler Alarm' would be as follows:

An example of this format is as follows:

***26110016008AInput 26 Test**

Input Number:	26
Enable or Disable:	Enabled (1)
NO or NC:	Contacts are Normally Closed (1)
Pager number:	0016008
Bleep code:	A
Message:	Input 26 Test

Any errors will be shown by the unit on the PC screen. Correct programming is indicated by the unit returning an 'ok'

