



Installation and Operation Manual

for the

AS16B, Alert Sentry

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All specifications and features for this product are subject to change without notice.

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Broadcast Tools, Inc. AS16B, Alert Sentry

INTRODUCTION

Thank you for your purchase of a Broadcast Tools, Inc., AS16B, Alert Sentry. We're confident that this product will give you many years of dependable service. This manual is intended to give you all the information needed to install and operate the unit.

✍ NOTE: This manual should be read thoroughly before installation and operation.

SAFETY INFORMATION

Broadcast Tools products should be installed only by qualified personnel. Incorrect or inappropriate use and/or installation could result in a hazardous condition.

Broadcast Tools Products, as any electronic device, can fail without warning. Do not use this product in applications where a life threatening condition could result due to failure.

WHO TO CONTACT FOR HELP

If you have any questions regarding your product, or you need assistance, please contact your distributor from whom you purchased this equipment or contact us directly.

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Thank you for choosing Broadcast Tools!

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AS16B, Alert Sentry

Description: The **Alert Sentry 16B** provides a convenient way to monitor and log station alarms on DOS and Windows based PC s. The AS16B is provided with software that may be run under DOS or Windows and allows up to sixteen alert and sixteen non-alert, 63 character descriptions to be displayed and logged. An alarm condition causes a highlighted cursor to flash beside the highlighted 63 character description. Logging provides the time, date and description of each event changing states and is logged to disk in ASCII form. The log data may be edited, printed and viewed using any text editor.

Features:

- ❖ 16 optically isolated inputs, that may be programmed for wet or dry input operation
- ❖ User programmable 63 character ON and OFF alarm text
- ❖ Logging of Time, Date and event description
- ❖ RS-232 serial port that may be fed to the serial ports of multiple computers
- ❖ On screen date and time display
- ❖ Dual relays, K1 first closes for six seconds after any high to low or low to high transition on any input, while K2 stays closed while any or all alarms are present
- ❖ Input connections are via WAGO clamp style wire captive terminals

Specifications:

Serial: High integrity data format, baud rate set at 9600. Protocol, RS-232, 8-N-1 (Optional RS-485).

Software: DOS version 5.0 or greater, Windows 3.1, 95, 98 compatible. Supplied on 3.5 disk.

Logic: Microprocessor.

Relays: 1-form-C sealed relays with LED indicators. Rated at 24vac/500ma.

NOTE: *Never connect relays directly to 120 volt circuits*

Logic input: Optically isolated /w selection of dry or wet inputs with LED indicators. 5 to 24 vdc @ 20 ma and compatible with CMOS/TTL, open collector or contact closures.

Connectors: WAGO Clamp style wire captive terminals. Modular, RJ-12, RS-232/w 9 pin D-sub adapter, supplied.

Power: 12 Vac, 500 ma. 120 Vac 50-60 Hz wall transformer, supplied.

Dimensions: 7.0"W x 1.00"H x 4.15" D.

Weight: 1.5 lb.

Mounting: Flanges with # 6 mounting holes.

Option: RM-2, Rack Panel, holds two units, 3-RU.

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INSTALLATION

Please examine your **AS16B** carefully for any damage that may have been sustained during shipping. If any is noted, please notify the shipper immediately. Retain the packaging for inspection by the shipper. The package should contain the **AS16**, 12 Vac @ 500ma wall power transformer, this manual, software provided on a 3.5 HD disk and a modular cable w/ 9 pin female D-Sub modular adapter.

The **AS16B** is designed to be rack mounted in a standard 19" rack panel, such as the RM-2. It should be mounted in an area that is accessible from the rear and preferably away from sources of heat.

Refer to the layout sheets provided at the end of this manual, for configuration and hook-up information.

Load the supplied AS16B software on a PC with DOS version 5.0 or greater to the subdirectory <AS16> and follow the format below.

NOTE: Only use Microsoft EDIT to modify the AS16BLOG.TXT, AS16BMSG.TXT and IRDINIT.TXT files.

The AS16 has been tested and successfully operated with DOS > 5.0, Windows 3.1, 3.11, 95, 98.

File: IRDINIT.TXT is where the com port is selected. The program is shipped with COM 1 as the default.

File: AS16B.BAT is the batch file used to call the main program AAIRD.EXE

File: AS16BMSG.TXT is where your call letters and ON/OFF descriptions can be edited.

File: AS16BLOG.TXT is where the logging data is stored. This file can be viewed and printed with Microsoft EDIT .

Broadcast Tools, Inc., AS16B Command Line Usage:

AS16B.BAT

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Input and output pin-outs

1 - Input 1 +	33 Relay 1 N.O.
2 - Input 1 -	34 Relay 1 - Common
3 - Input 2 +	35 - Relay 1 N.C.
4 - Input 2 -	36 Relay 2 N.O.
5 - Input 3 +	37 Relay 2 - Common
6 - Input 3 -	38 Relay 2 N.C.
7 - Input 4 +	
8 - Input 4 -	
9 - Input 5 -	
10 - Input 5 +	
11 - Input 6 -	
12 - Input 6 +	
13 - Input 7 -	
14 - Input 7 +	
15 - Input 8 -	
16 - Input 8 +	
17 - Input 9 +	
18 - Input 9 -	
19 - Input 10 +	
20 - Input 10 -	
21 - Input 11 +	
22 - Input 11 -	
23 - Input 12 +	
24 - Input 12 -	
25 - Input 13 -	
26 - Input 13 +	
27 - Input 14 -	
28 - Input 14 +	
29 - Input 15 -	
30 - Input 15 +	
31 - Input 16 -	
32 - Input 16 +	

DB-9 Modular adapter connection:

- 2 Transmit data to Computer.
- 3 Receive data from Computer.
- 5 - Ground.

J-22 Output (Relay) control:

Open = Normal data
Closed = Inverted data

J-23 Input (Opto) Control:

Open = Normal
Closed = Inverted data

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