



PC-LOUD QUICK START

(For those who can't wait)

Refer to Figure 2. See page 3 for detailed installation.

1. Turn off power to the PC and remove its cover.
2. Snake PC-LOUD cable into PC through unused rear plate or other suitable entry point. See Figure 2 Locate the connection between the speaker and the PC motherboard.
3. Remove the internal speaker connector from the motherboard. (Figure 2B)
4. Connect the Green and White wires of the PC-LOUD cable to the speaker connector. Polarity does not matter. (Figure 2C)
5. Connect the Red and Black wires of the PC-LOUD cable to the Motherboard connector. Polarity does not matter.
6. Replace PC cover and power on.
7. Turn PC-LOUD's ON/OFF switch to the ON position, and the LATCH/FOLLOW to the LATCH position.

GENERAL DESCRIPTION

PC-LOUD is an audible annunciator that converts speaker activity on a personal computer (PC) into a loud alert tone. Any time the PC emits a speaker sound, PC-LOUD will replace that sound with an 80db sonic blast. This blast can last as long as the speaker would have sounded, or it can latch in the on position until you press a reset button. This latching feature enables the PC-LOUD to alert you to an event, even if you are not sitting close to the PC at the time the event takes place. PC-LOUD's piezoelectric sounder can be shut off whenever PC speaker use is desired.

In addition to its PC capabilities, PC-LOUD can also be used as a general purpose alert device, capable of being set off by an RS-232 signal level or contact closure. PC-LOUD also provides a set of relay contacts that allow additional devices to be turned on or off whenever PC-LOUD is generating tones.

PC-LOUD installs on the outside of the PC, and connects to the internal PC speaker and to the speaker connection on the motherboard with a provided cable. Double sided tape for mounting on the PC case, monitor or nearby surface is also provided. PC-LOUD is powered by a wall mounted UL listed power supply.

REF: MISC\PC-LOUD_V980601F.DOC

Technical Support Hotline: (201) 967-8788



OPERATION

PC-LOUD provides a loud alert tone whenever the PC would normally put a tone out on the internal speaker. This alert tone is much louder than the PC's internal speaker and can be latched to remain on until the user resets PC-LOUD.

PC-LOUD uses a monotone piezoelectric sounder. It does not play 'music' like the internal PC speaker. When 'music' is required, PC-LOUD can be turned off, returning the internal speaker to use.

Switches

- ON / OFF** ON Position activates PC-LOUD. Internal PC speaker is not used.
 OFF Position powers off PC-LOUD and connects the PC to its internal speaker.
- MODE** FOLLOW Position: PC-LOUD will sound for the same duration as the internal speaker would. Sounds 'follow' the PC output.
 LATCH Position: PC-LOUD will sound continuously until Reset.
- RESET** Push-button silences PC-LOUD when in the LATCH mode.

Indicator

- ON** Indicates PC-LOUD is powered On.

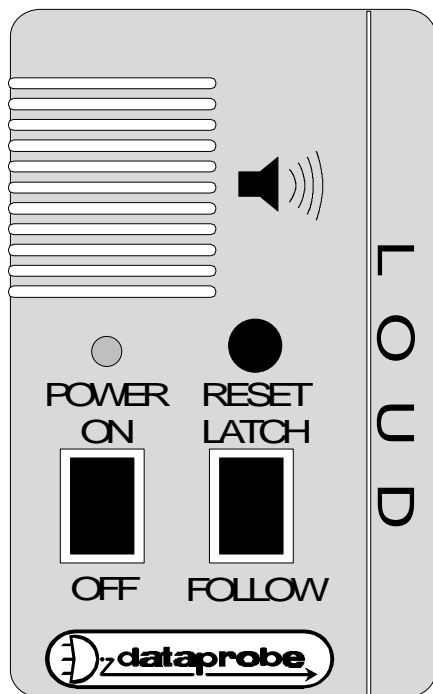


FIGURE 1A
PC-LOUD
Cover On

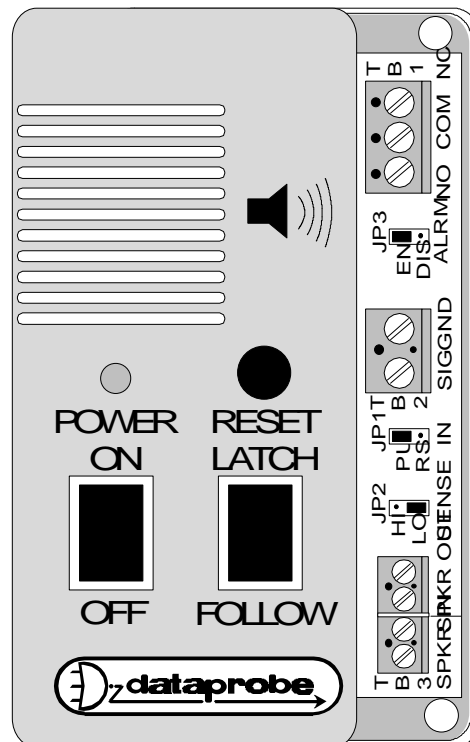


FIGURE 1B
PC-LOUD
Cover Off

EXTERNAL CONTROL

PC-LOUD can also be operated by an externally supplied contact closure/open or an RS-232 control signal High/Low. In this mode, the Speaker Cable is not used and the connections to the controlling source are made using the screw terminal blocks inside PC-LOUD. Refer to the Installation section for wiring details.

Auxiliary Relay

PC-LOUD provides a form C relay that operates in conjunction with the sounder. This relay can be used to operate external audible or visual signals, or to turn on or off additional devices.

When PC-LOUD's sounder is off, the Common (COM) of the relay is connected to the Normally Closed (NC) contact. When the sounder is on, the COM is connected to the Normally Open (NO) contact. A jumper allows disconnection of the piezo sounder, so that the relay may be used without the sound.

INSTALLATION

PC Speaker Applications

PC-LOUD connects to both the internal speaker and to the speaker connection on the PC motherboard. To connect PC-LOUD, follow these step-by-step instructions. Refer to Figure 2 for assistance.

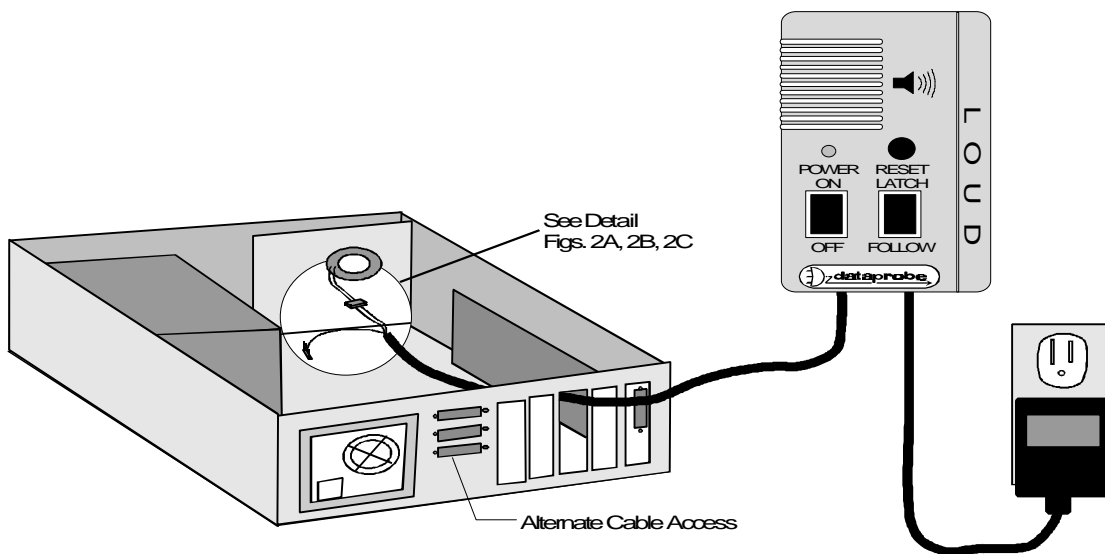


FIGURE 2
Installation of PC-LOUD
Speaker Cable

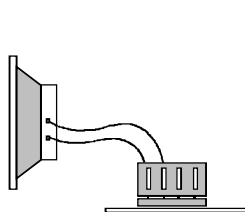


FIGURE 2A
Locate speaker
connection to
PC motherboard

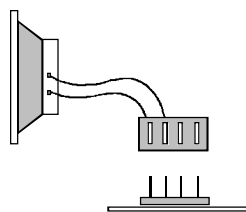


FIGURE 2B
Separate speaker
from motherboard

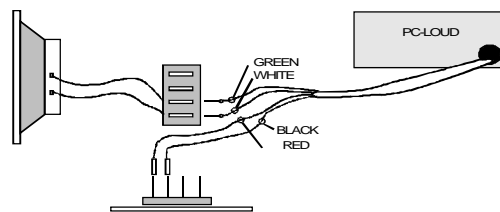


FIGURE 2C
Connect PC-LOUD

STEP BY STEP INSTALLATION

Turn off power to the PC and remove its cover.

Run The PC-LOUD Cable Into PC

The Speaker Cable from PC-LOUD has to be inserted through the chassis of the PC so that the cover of the PC can be closed without pinching the Speaker Cable or interfering with other PC functions. An unused plate in the rear of the PC can be used for this purpose. (Figure 2)

Locate The Connection Between The Speaker And The PC Motherboard

The speaker is usually found attached to the front of the PC chassis. Once the speaker is located, follow the wires from it to the connector on the PC motherboard. This is usually a thin plastic connector. Make note of which positions on this connector each of the speaker wires is coming from. (Figure 2A)

Remove The Connector At The Motherboard

Carefully remove the connector from the motherboard. Lift the connector straight up, being careful not to wiggle it and break the motherboard side of the connector. You will notice a set of pins sticking up from the motherboard. Note the pins that match the positions in the connector being removed that are used by the speaker. (Figure 2B)

Connect The Speaker Cable To The Speaker

The Green and White wires of the PC-LOUD Speaker cable are used to connect to the cable from the PC speaker. Insert the pins at the end of the Speaker cable into the connector housing of the PC speaker wire. PC-LOUD is not sensitive to which wire goes to which lead of the speaker (Polarity does not matter). (Figure 2C)

Connect The Speaker Cable To The Motherboard

Use the Red and Black wires of the PC-LOUD Speaker cable connect to the pins on the motherboard that connected to the speaker leads. Slide the ends of the Speaker cable wires over the pins on the motherboard. PC-LOUD is not sensitive to which wire goes to which pin on the motherboard. (Polarity does not matter). (Figure 2C)

Replace PC cover and power on.

Turn On PC-LOUD

Plug PC-LOUDs power supply into a suitable 120 VAC 60 Hz. Power source. Switch the ON/OFF toggle to the ON position.

External Control Applications

Connection to externally supplied control signals is made to PC-LOUD using the two position terminal block inside the unit. To access the terminals, remove PC-LOUD's top cover by loosening the two screws marked OPEN on the underside of the unit. Refer to Figure 1B for component locations.

The Terminal Block designated TB2 is used to connect the externally supplied signal; Connect either:

RS-232 control lead: Connect to signal to be monitored (i.e. Carrier Detect or Data Terminal Ready) to the SIG terminal and the Ground lead to the GND terminal.

To Sound on Control Lead Low:

- Set JP1 to RS Position
- Set JP2 to LOW Position

To Sound on Control Lead High:

- Set JP1 to RS Position
- Set JP2 to High Position

Dry relay contacts: Connect the two relay contacts that will control PC-LOUD to either terminal (SIG and GND).

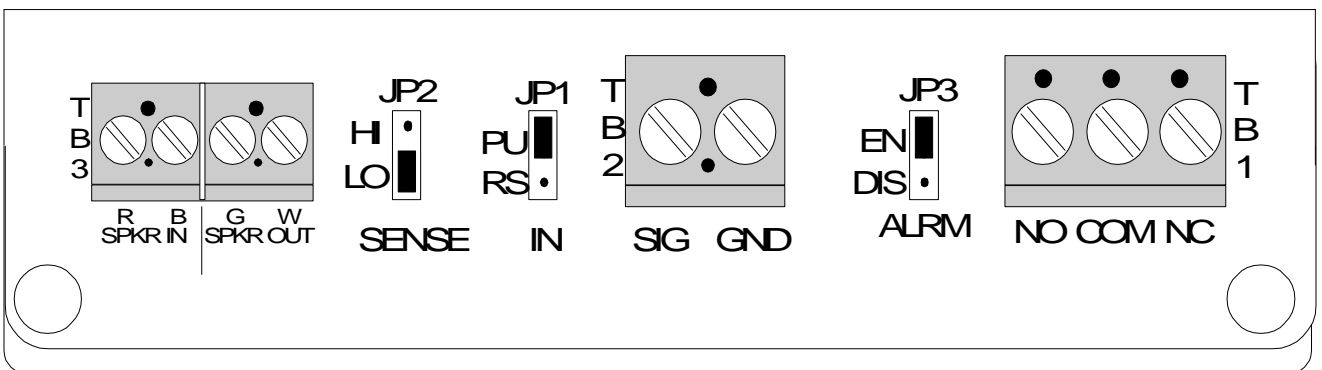
To Sound on Contact Closure:

- Set JP1 to PU Position
- Set JP2 to LOW Position

To sound on Contact Open:

- Set JP1 to PU Position
- Set JP2 to HI Position

In both cases, the LATCH and FOLLOW modes of operation are permissible.



AUXILIARY RELAY

Connections to PC-LOUDs Auxiliary relay are made using the three position terminal block TB1. Terminals are marked NO, COM and NC for the Normally Open, Common and Normally Closed relay contacts. PC-LOUDs form C relay will be De-energized (Common connected to Normally Closed) when the sounder is Off and energized (Common connected to Normally Open) when the sounder is On.

Relay Output Specifications:

Maximum;	DC	AC
Switching Power	30 W	50 VA
Switching Voltage	150 V	125 V
Switching Current	1.25 A	1.25 A
Carrying Current	2 A	2 A

SPEAKER DISABLE

Jumper JP3 can be put in the DIS position to completely disable the speaker. In this mode, only the Auxiliary Relay will function. Return the jumper to the EN position to enable the speaker.

TECHNICAL SUPPORT, RETURNS & WARRANTY

Dataprobe Technical Support is available 8:30AM to 5:30PM ET to assist you in the installation and operation of this product. To obtain Technical Support call our [Tech Support Hotline at 201-967-8788](tel:201-967-8788), or Email us at tech@dataprobe.com. Please have the following information available when you call:

- Model of Product
- Serial Number
- Data of Purchase
- Name of Seller (if other than Dataprobe)

If you purchased this product through an **Authorized Dataprobe Reseller**, you should contact them first, as they may have information about the application that can more quickly answer your questions.

WARRANTY

Seller warrants this product, if used in accordance with all applicable instructions, to be free from original defects in material and workmanship for a period of One Year from the date of initial purchase. If the product should prove defective within that period, Seller will repair or replace the product, at its sole discretion.

Service under this Warranty is obtained by shipping the product (with all charges prepaid) to the address below. Seller will pay return shipping charges. Call Dataprobe Technical Service at (201) 967-8788 to receive a Return Materials Authorization (RMA) Number prior to sending any equipment back for repair. Include all cables, power supplies and proof of purchase with shipment.

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