

00030-20/21

SPEAKER/AMPLIFIER

PANEL

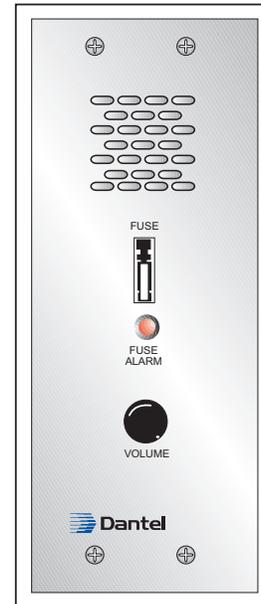


Table of Contents

Ordering Information	2
General Description	2
Circuit Description	2
Installation	3
Operation	4
Technical Specifications	4
Warranty	6

About this Practice:

This practice has been reissued to:

- Incorporate material from addendum.

Reissued Practices: Updated and new content can be identified by a banner in the outside margin.

Issue date: February 2000

UPDATED

CAUTION

- Install or remove modules from the shelf only when the power is off. If you install a module in the shelf with the power on, the internal circuitry may suffer damage and the product warranty will be void.
- Remove and install circuit boards only in a static-safe environment (use antistatic wrist straps, smocks, footwear, etc.).
- Keep circuit boards in their antistatic bags when they are not in use.
- Do not ship or store circuit boards near strong electrostatic, electromagnetic, magnetic, or radioactive fields.
- For more complete information on electrostatic discharge safety precautions, refer to Bellcore™ Technical Reference # TR-NWT-000870.

ORDERING INFORMATION

NOTE: This section lists the different options available for this product. To order any of the available options, contact Dantel Inside Sales through our toll-free number, **1-800-432-6835**.

OPTION NUMBER	FEATURES
A13-00030-20	Wall-Mount Speaker
A13-00030-21	Wall-Mount Speaker w/ Volume Control

GENERAL DESCRIPTION

The 00030-20 and 00030-21 Speaker/Amplifier Panels are wall-mountable and can be used for local alarm monitoring or general-purpose applications.

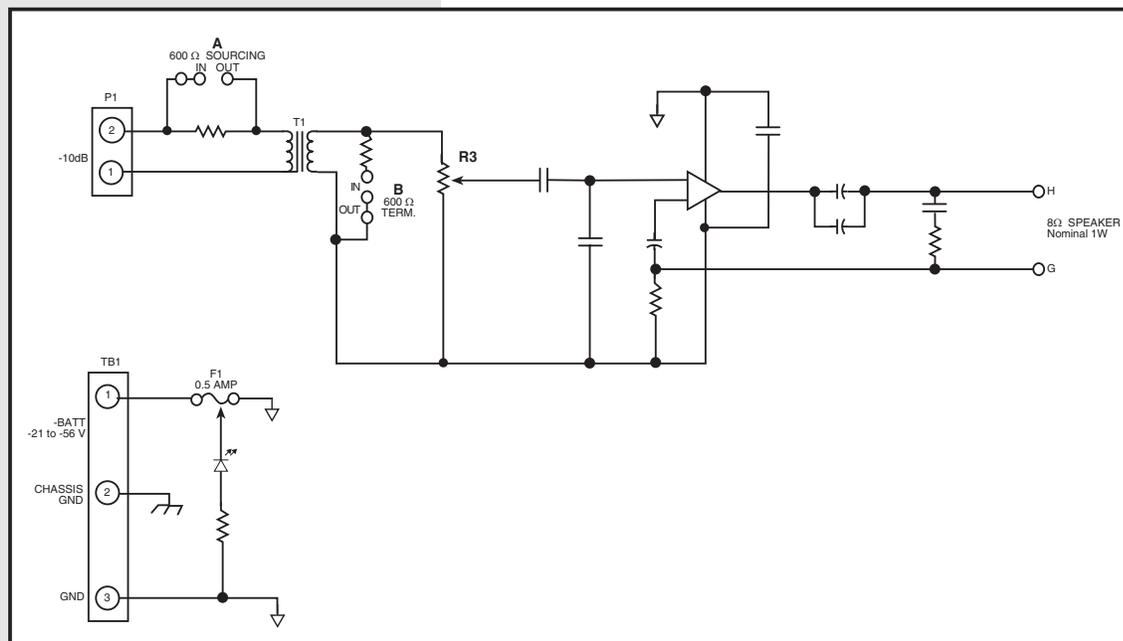
The panels include a speaker, amplifier, volume control (internal with the -20, front panel mounted with the -21), fuse, and fuse alarm LED. The input is transformer isolated and can be strapped for either a 600-ohm or bridging input impedance. A 600-ohm source resistor is also available when the source impedance is very low.

Input power can range from -21 VDC to -56 VDC.

CIRCUIT DESCRIPTION

The 00030-20 functional schematic is shown in Fig. 1.

FIG. 1 - 00030 FUNCTIONAL SCHEMATIC



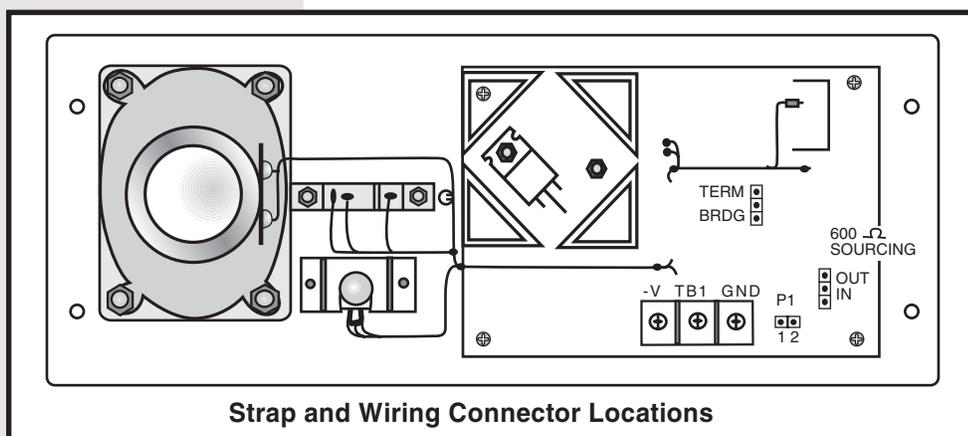
INSTALLATION

Installation consists of mounting the unit on the wall, setting the straps, and wiring the signal leads and power.

1. Remove the four screws from the front panel and separate the front panel from the chassis.
2. Mount the chassis on the wall. Hardware is not provided for this step.

NOTE: Refer to Fig. 2 for the location of the straps and wiring connectors.

FIG. 2 - STRAP AND WIRING CONNECTOR LOCATIONS



3. Place the 600-ohm sourcing strap and the terminating/bridging strap in the position required by your application. Refer to Table A.

TABLE A - STRAP OPTIONS

OPTION	STRAP SETTINGS
Bridging Input	600-ohm sourcing strap OUT; TERM/BRDG strap to BRDG
600-ohm Terminated Input	600-ohm sourcing strap OUT; TERM/BRDG strap to TERM
600-ohm Sourcing for Low Impedance Source	600-ohm sourcing strap IN; TERM/BRDG strap to TERM

4. Wire the signal leads to P1-1 and P1-2. Bring the wiring through the hole in the bottom of the chassis.
5. Wire the power leads to TB1. Bring the wiring through the hole in the bottom of the chassis.
 - ◆ Connect negative battery to the left terminal, labeled “-V”.
 - ◆ Connect chassis ground to the middle terminal, labeled “TB1”.
 - ◆ Connect ground to the right terminal, labeled “GND”.
6. Reinstall the front panel to the chassis. This concludes the installation process.

OPERATION

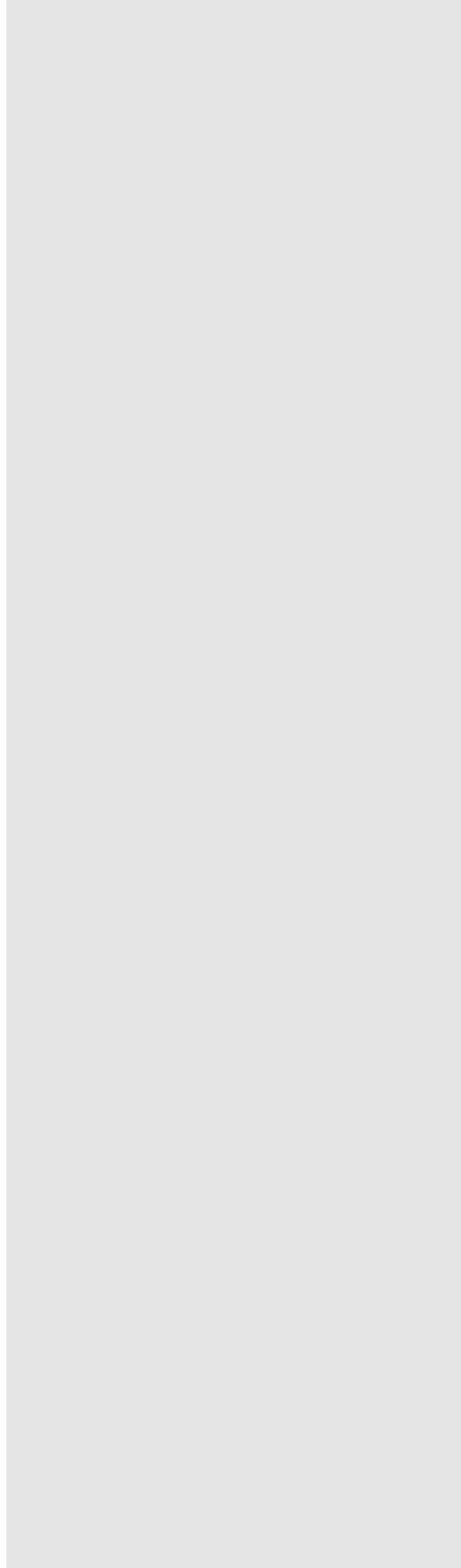
The 00030-20 has a volume control knob located inside the case. To adjust the volume, remove the front panel from the chassis.

The 00030-21 has the volume control knob located in the front panel.

TECHNICAL SPECIFICATIONS

DESCRIPTION	VALUE
Input Voltage Range	-21 to -56 VDC
Input Current	
Idle	60 mA @ -56 VDC
Max	250 mA @ -56 VDC
Heat Dissipation	
Idle	11.5 BTU @ -56 VDC
Max	47.8 BTU @ -56 VDC
Weight	2.7 pounds
Dimensions	8.9"H x 3.5"W x 3.5"D
Operating Temperature Range	0° to 55° C.
Speaker Output Power	1 Watt
Maximum Input Level	-10 dBm
Frequency Response	300Hz to 6KHz @ 1 watt
Input Impedance	600 or 10K ohms, strappable

NOTES



WARRANTY

LIMITED WARRANTY

The Seller warrants that the standard hardware products sold will be free from defects in material and workmanship and perform to the Seller's applicable published specifications for a period of 18 months for hardware, and 3 months for software, from the date of the original invoice. The liability of the Seller hereunder shall be limited to replacing or repairing, at its option, any defective products which are returned F.O.B. to the Seller's plant, (or, at the Seller's option, refunding the purchase price of such products). In no case are products to be returned without first obtaining permission and a customer return authorization number from the Seller. In no event shall the Seller be liable for any consequential or incidental damages.

Equipment or parts which have been subject to abuse, misuse, accident, alteration, neglect, unauthorized repair or installation are not covered by warranty. The Seller shall make the final determination as to the existence and cause of any alleged defect. No warranty is made with respect to custom equipment or products produced to the Buyer's specifications except as specifically stated in writing by the Seller in the contract for such custom equipment.

This warranty is the only warranty made by the Seller with respect to the goods delivered hereunder, and may be modified or amended only by a written instrument signed by a duly authorized officer of the Seller and accepted by the Buyer.

Warranty and remedies on products not manufactured by the Seller are in accordance with warranty of the respective manufacturer. THE SELLER MAKES NO OTHER WARRANTY OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED; AND ALL IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEEDS THE AFORESAID OBLIGATIONS IS HEREBY DISCLAIMED BY THE SELLER.

IN CASE OF DIFFICULTY

If you experience difficulty with this equipment, check the following, as appropriate:

1. **Switch settings**
2. **Signal levels**
3. **Software configuration**
4. **Connections between Dantel's equipment and your equipment.**

If there is still a problem, substitute equipment that is known to be good. For additional assistance, call Dantel's Technical Field Service Department weekdays, 6 A.M. to 5 P.M. pacific time:

1-800-4DANTEL (1-800-432-6835).

If a thorough checkout shows a piece of equipment has malfunctioned, you may return it to the factory. For repairs and emergency replacements, obtain a Return Material Authorization (RMA) number from the Customer Service Representative at **1-800-4DANTEL (1-800-432-6835)**.

To ensure expedient processing of your order, provide a purchase order number and shipping and billing information when requesting an RMA number. Also, when the units are returned to Dantel, include a description of the failure symptoms for each unit returned. Send defective equipment to:

Dantel, Inc. • 2991 North Argyle Avenue • Fresno, California 93727-1388

