

CARRIER-OPERATED ANTI-NOISE DEVICE

CDN-3



The Model CDN-3 is a solid state receiver control unit. Its purpose is to electronically determine the optimum signal-to-noise ratio of an AM voice signal and activate the receiver only when the received signal is suitable for high-quality telephone conversation.

The signal-to-noise ratio at which receiver muting takes place is adjustable from the front panel for optimum receiver operation. When improper conditions for signal reception exist, a visual indication is used to alert the operator. The muting of the receiver under adverse conditions assures a low level of background noise at the receiver monitor site.

A sample of the receiver IF frequency is all that is required for operation. Standard IF frequencies can be used from any receiver thereby ensuring continuous, undisturbed signal flow through the receiver with no loss of quality.

Supersedes 4013A
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THE TECHNICAL MATERIEL CORPORATION

AND SUBSIDIARIES

Printed in U.S.A.

TECHNICAL SPECIFICATIONS

IF Input

455 KHz for AM(A3) or AME(A3H)
OPTIONAL: 100, 200, 250, 500 or 1750 KHz.

IF Input Level and Impedance

5000 ohms; 100 millivolts to 1 volt
50 ohms; 1 millivolt to 1 volt

Operating Bandwidth

+/-2 KHz at 3db points
+/-8 KHz at 20 db points.

Threshold

Adjustable by front panel control.
This is signal-to-noise ratio at which muting takes effect

Indicators

CARRIER ON

Indicates reception of carrier when ON. With absence of carrier or excessively high noise level, switches OFF.

AC ON

Indicates operation when AC line voltage is applied.

Special Features

BATTERY OPERATION

Battery supply automatically recharged when operating AC.
When AC voltage fails, CDN-3 operates from battery supply.

REMOTE INDICATOR

Barrier strip for remote CARRIER ON/AC POWER indication

Primary Power

115/230 VAC, 50/60 Hz, single phase
Approximately 4.5 watts
OPTIONAL: +/-12 VDC; 4 watts

Size and Weight

3½" high X 19" wide X 15" deep
Approximately 10 lbs.

Loose Items

Mating RF connectors
Two copies of Instruction Manual

Refer to Bulletin 3019B, Model COR-4B Codan—Operated Receiving System for application of CDN-3 unit.



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