

MODEL 8300



REPEATER CONTROLLER & DUPLEX INTERCONNECT



The Model 8300 provides repeater and duplex interconnect for private systems. A 99 memory speed-caller allows three digit mobile to mobile and land to mobile selective calling utilizing built-in DCS, CTCSS, DTMF, 2 Tone and 5/6 Tone signalling.

REPEATER OPERATION

The repeater can be set for CTCSS/DCS or COR operation. One input tone and one output tone can be selected from 154 choices.

Mobile to mobile signalling allows selectively calling a mobile or activating a horn honker etc.

A variety of features such as hangtime, CW ID, courtesy tone, activity/timeout timers are user programmable. The repeater mode can be disabled if interconnect only operation is desired.

INTERCONNECT OPERATION

Outgoing Calls: The 8300 can be set to operate either full or half duplex. Half-duplex privacy mode can be permanently selected, or temporarily selected with a DTMF command. Privacy mode prevents eavesdroppers from hearing the mobile side of an interconnected conversation.

To dial a phone call, enter the access code (*1-6 digits*) and then dial the desired phone number after dialtone is heard. To place a call using the 99 memory speed-dialer, simply precede the access code with the desired one or two digit speed dial memory number. When the call is completed, the mobile sends # to disconnect.

Six toll restrict sequences, and 16 toll override sequences can be programmed. Override sequences allow you to permit dialing into select area codes, or exchanges within area codes that would otherwise be restricted. A second toll

override access code can be set that will override all toll restricts by authorized personnel.

Incoming Calls: Mobiles can receive incoming calls using ringout or selective calling:

If set for Ringout, the 8300 transmits a simulated ring alert (*plus a signalling sequence if desired*) in response to incoming ringing. Any mobile on the system can answer the call by simply pressing his mic button.

If set for Selective Call, the 8300 auto-answers incoming calls and prompts the caller to enter a three digit selective call code. The speed-caller translates the three digit selective call code into a preprogrammed signalling code which alerts the appropriate mobile (*conventional CAP Codes may also be used*). The mobile answers the call by simply pressing his mic button.

SPEED CALLER

A 99 memory speed-caller allows sending any built-in signalling sequence with abbreviated user programmable three digit call codes. Six unique ring alerts can be programmed to accompany CTCSS and DCS signalling. The speed-caller allows number substitution so that a user retains his previous call code when assigned to a new mobile.

PROGRAMMING

The 8300 can be programmed three ways...

1. Locally by plugging any DTMF telephone into the PROG jack. The front panel display allows you to verify all programming.
2. Over the air programming from a DTMF radio. A DTMF transpond allows remote verification using a CD-2 Decoder (*option*).
3. Dial-up programming from any DTMF phone. Beeps let you know if your commands have been accepted.

Repeater features:

- 154 CTCSS/DCS codes to choose from
- Cross Tone
- Can be set for COR operation
- DTMF - DTMF Regeneration
- Mobile to mobile selective calling
- DCS, CTCSS, DTMF, 2 Tone and 5/6 Tone signalling
- 99 memory speed-caller
- Repeater enable/disable
- Stuck mic activity timer
- Courtesy tone

Interconnect features:

- Full/half duplex
- Temporary or permanent half duplex privacy
- 1-6 digit access code
- 1-6 digit toll override access code
- 99 speed-dial memories
- Last number redial
- DTMF or Pulse dialout (*regenerated*)
- Six programmable toll restrict sequences
- 16 programmable toll override sequences
- Line in use detection
- Busy and dialtone disconnect
- Ringout 1-9 ring
- Remote Base Mode (*dispatch from any phone*)
- Land to mobile selective calling
- DCS, CTCSS, DTMF, 2 Tone and 5/6 Tone signalling
- 99 memory speed-caller
(*allows abbreviated three digit selective calling*)
- Six unique ringing alerts
- Dial Click Detection
- Hookflash
- Programmable call limit and activity timers
- Two transformer hybrid
- FCC and DOC approved Telco interface

General features:

- Local, Dial Up and Over the air programming
- Transponds programming results to view data on CD-2 (*option*)
- CTCSSTrak™ for ultimate CTCSS decoding sensitivity
- Four digit front panel display
- Front panel status LED's
- CW ID
- COS input with threshold adj. and polarity select
- Aux relay
- Available in desk top 8300D, or rackmount 8300R cabinet

SPECIFICATIONS

AUDIO IN

Input level	10 MV - 2 V P-P
Input impedance	220K AC coupled

AUDIO OUT

Output level	0-5 V P-P
Output impedance	1K AC coupled
Distortion	< .5% THD
Freq. response	300 - 3000 HZ

DCS

Output level	0-5 V P-P
Output impedance	5K AC coupled
No. of codes supported	104
Decode Time	< 200 MS Typ.

CTCSS

Output level	0-5 V P-P
Output impedance	5K AC coupled
No. of tones supported	50
Decode Time	< 200 MS Typ.

MISCELLANEOUS

Programming access code	6 digits
PTT keying	Pull to gnd. or pull to +12 VDC
Repeat audio filtering	6 pole high pass
Temperature range	-30 C to +80 C
Input voltage	12-15 VDC
Input current	150 mA. (<i>no signal</i>)

MECHANICAL

8300R: Size / weight	1.75 x 19 x 7.5 in. / 4 lbs.
8300D: Size / weight	2 x 11.4 x 7.5 / 4 lbs

WARRANTY

One Year Labor / Five Year Parts



ALL FEATURES ARE USER PROGRAMMABLE/SELECTABLE

Made in U.S.A



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