

Model 24-66 Tone Remote



As your communications needs grow and change, the 24-66 will keep up. Standard features that are not needed now can be activated with simple programming done in the field. Monitor, Intercom, Mute, Alert Tone, Number of Channels and the Auxiliaries are all programmable.

With multiple remotes installed in parallel, the audio levels remain consistent. Even in a noisy environment you will be heard loud and clear.

Cost Options

RBC-610 - Clock and VU Meter

- Large easy to read LED display gives TIME and TX level at a glance. (Field programmable as Military or Standard time.)

RBC-611 - Four Wire

- Programmable for full duplex or separate pairs for TX and RX

RBC-612 - Supervisory / Alternate Line

- Programmed as Supervisory this option allows one desktop remote to control access to the base station by other remotes. Programmed as Alternate Line allows the deskset to switch to a different base station radio with the push of a button.

RBC-613 - Parallel TX Indicator and Notch Filter

- Provides visual indication of transmit by another remote and prevents the 2175 Hz guard tone from being heard through the speaker.

Programmable features:

“Mute on Parallel TX” allows two or more desksets to be located in the same room without causing feedback.

“Parallel override” allows command tones to be sent even when another remote is off hook.

“Parallel Update” changes the display of all the desksets when selecting a new channel.

Features & Capabilities

- Field Programmable by PC
- Control & Display up to eight channels
- Monitor (*latched or momentary*)
- Intercom
- Mute (*latched or momentary*)
- Alert Tone
- Programmable Auxiliaries
- 30 dB of Compression and 3 Watts of speaker audio

Additional Programmable Features

- Tones can be programmed for whichever function is desired.
 - ☛ Available tones: 2050 Hz, 1950 Hz, 1850 Hz, 1750 Hz, 1650 Hz, 1550 Hz, 1450 Hz, 1350 Hz, 1250 Hz, 1150 Hz, 1050 Hz.
- Disable of ON HOOK MONITOR
 - ☛ (handset only)
- Momentary F2
 - ☛ (always returns to F1)
- Momentary Intercom
- Remote Update
 - ☛ (updated display of 24-66 when base station radio changes channels due to SCAN or in trunking applications, available for several popular radios, Option 613 and Model 20-27 Tone Termination Panel required.)



Cost Options continued from previous page

RBC-614 - 12 VDC Power Cable

- Prewired power cable makes installing battery backup quick and easy.

RBC-615 - 2nd Line with Summed Audio

- Control two base stations with the same deskset remote. RX audio from both lines is summed and heard on the deskset's speaker. The operator can TX and change channels on whichever line is selected. Audio from the "Unselected" line is at a lower volume than audio from the "Selected" line. The relative volume of the unselected audio is dealer adjustable. (Not available with Option 611 - Four Wire)

RBC-616 - One Touch TX

- Transmit with the touch of a button on the faceplate. A small condenser mic hidden on the front edge of the unit picks up your voice. Great for short quick responses.

RBC-617 - 99 Channel Capability

- Provides up to 99 channels to be controlled and displayed. By using a pair of function tones, 128 different commands are possible. The desired channel is selected by toggling up or down and shown on the LED display. Included with Option RBC-617 are options RBC-610 (clock) and RBC-613 (notch filter). Momentary time display is via the CLOCK button.

RBC-618 - 99 Channel Capability with DTMF

- Similar to option RBC-617, this option provides up to 99 channels to be controlled and displayed. Direct access to the desired channel and DTMF encode are added features. A 12-button keypad is mounted on the faceplate of the deskset. Included with Option RBC-618 are options RBC-610 (clock) and RBC-613 (notch filter). Momentary time display is via the CLOCK button.

RBC-619 - Alpha-Numeric Display

- Displays channel selections with the name/number of the operator's preference. Programmable up to 16 characters, the option includes clock and VU meter.

RBC-620 - Alpha-Numeric Display

- Displays channel selections with the name/number of the operator's preference. Programmable up to 32 characters, the option includes clock and VU meter.

RBC-621 - Digital Signaling

- Fast and efficient digital signaling in a proprietary MSK format. When used along with Model 20-28 Remote Termination Panel, option RBC-621 provides the high speed switching and communication required for demanding trunking operations. Options RBC-610 (clock) and RBC-613 (notch filter) are included. Option RBC-611 (four wire) is recommended for use in most trunking applications.

RBC-622- DTMF Encode

- 12 button DTMF encoder with keypad mounted on deskset.



Model 24-66 with DTMF and desktop mic.

Other Options

RBC-001

- Wall Mounting Bracket

RBC-002

- External Encode/Decode Cable

RBC-003

- Programming Cable and Software

Model 20-27 Tone Termination Panel

The world's most powerful Tone Remotes deserve the most powerful Tone Panel. The Model 20-27 is field programmable just like the remotes. Offering standard features such as 99 Channels, Local mic jack, LTR and ESAS trunking format, Binary output, and Remote Update of 24-66s. Direct control including SCAN, System/Group is standard for popular EF Johnson, Uniden, Kenwood and SEA. Plug and play cabling available for a wide variety of radios.



Model 24-66

Tone Remote Specifications



Input voltage117/230 VAC +/- 20% 50/60 Hz	Speaker audio output (RMS)3W into 4 ohms
Standby voltage 12-15 VDC	Distortion (at rated speaker output) < 3%
Standby current 287 mA (TX) 620 mA (RX) (STBY)	RX hum & noise -49 dB
Input power (max)8.5W (TX) 20W (RX) 8.5W (STBY)	Frequency response ... +1, -3 dB except at notch frequency (300 to 3000 Hz)
Temperature range 0 to +60° C	RX compression With an audio increase of 30 dB beyond the start of compression the output increases less than 3 dB
Relative humidity 90% at 50° C	TX compression With an audio increase of 30 dB beyond the start of compression the output increases 15 to 16 dB
Line impedance (1KHz) 600 ohms (TX) 600 or 5k ohms (RX)	Line control 2 or 4 wire
Line audio output (600 ohm load) -20 to +10 dBm	Notch filter depth -45 dB (RX) -25 dB (TX)
TX hum & noise (ref +11 dBm) -55 dB	Weight4 lbs 15 oz
Threshold of compression -20 dBm adjustable (line to speaker audio)	Dimensions4.75" (h) x 8" (d) x 10" (w)

Model 20-28 Remote Termination Panel



The 20-28 is a programmable termination panel for use with IDA Model 24-66 desktop controllers equipped with digital signaling. By decoding the proper digital signals the 20-28 can control remotely located base stations or repeaters. In addition to providing a two-way path for audio the unit also provides update information back to the desktop controllers.

This update information allows the operator immediate information as to the remote radios' status, such as channel, in or out of scan, or the current System & Group if a trunking application.

MSK SIGNALING

The 20-28 is field programmable via IBM compatible PC and features digital signaling in a proprietary MSK format. When used along with Model 24-66 remotes equipped with MSK signaling (Option RBC-621) the 20-28 provides the high speed switching and communication required for demanding trunking applications.

PROGRAMMABLE OUTPUTS

To meet the requirements of various manufacturers base stations, the 20-28 can be programmed for a wide variety of outputs. For stations that are capable of receiving external serial commands, the 20-28 can be programmed to provide the proper command set. In addition, the unit can be programmed for Binary output.

This method of communicating with the radio's microprocessor in much the same way that its own faceplate display does offers virtually total remote control. Advanced features such as SCAN, Lockout, Selective calling, Priority SCAN, and others become possible. When programming the 20-28, up to 8 of the outputs can be selected as inputs.

LOCAL OPERATION

For installations where local operation of the base station is desired, the 20-28 is available with a desk microphone, speaker jack and volume control (Option RTM 604).