



Features

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

Benefits

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

Option 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*)

Option 611 – Four Wire

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

Option 612 – Supervisory / Alternate Line

Programmed as Supervisory this option allows one deskset 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.

Option 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.

Option 614 – 12 VDC Power Cable

Prewired power cable makes installing battery backup quick and easy.

Option 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 which ever 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)

Option 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.

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MODEL 24-66 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 (updates 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)

OTHER 24-66 & 24-46 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.





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Cost Options continued from previous page

Option 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.

Option 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.

Option RBC-619 – Alpha-Numeric Display

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

Option RBC-620 – Alpha-Numeric Display

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

Option 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 applications. Options RBC-610 (clock) and RBC-613 (notch filter) are included. Option RBC-611 (four wire) is recommended for use in most trunking applications.

Option RBC-622 – DTMF Encode

12 button DTMF encoder with keypad mounted on deskset.



MODEL 20-28 REMOTE TERMINATION PANEL

The 20-28 is a programmable termination panel for use with IDA Model 24-66 desk top 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 desk top 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 it's 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).

TRC-8/98



TECHNICAL SPECIFICATIONS

	DC REMOTES	TONE REMOTES	
	24-46	24-66	20-88
Input Voltage	117/230 VAC + -20% 50/60Hz	117/230 VAC + -20% 50/60Hz	117/230 VAC 50/60Hz
Standby Voltage	-----	12-15VDC	
Standby current	-----	287mA (TX) 620mA (RX) (STBY)	250mA (MAX)
Input power (max)	17W (TX) 24W (RX) 4W (STBY)	8.5W (TX) 20W (RX) 8.5W (STBY)	
Temperature range	0° deg to +60 deg C	0° deg to +60 deg C	0° C to +70° C
Relative humidity	90% at 50 deg C	90% at 50 deg C	
Line impedance (1KHz)	600 ohms (TX) 600 or 5k ohms (RX)	600 ohms (TX) 600 or 5k ohms (RX)	600 ohms @ 1 KHz
Line audio output (600 ohm load)	-20 to +10dbm	-20 to +10dbm	-20dbm to +10dbm
TX hum & noise (ref +11dbm)	-55db	-55db	
Threshold of compression (line to speaker audio)	-20dbm adjustable	-20dbm adjustable	-20dbm
Speaker audio output RMS	3W into 4 ohms	3W into 4 ohms	3.5W into 4 ohms
Distortion (at rated speaker output)	Less than 3%	Less than 3%	Less than 5%
RX hum & noise	-55db	-49db	-55db
Frequency response (300 to 3,000Hz)	+1, -3db	+1, -3db except at notch frequency	300Hz to 3KHz
RX compression	With an audio increase of 30db beyond the start of compression the output increases less than 3db	With an audio increase of 30db beyond the start of compression the output increases less than 3db	
TX compression	With an audio increase of 30db beyond the start of compression the output increases 15 to 16db	With an audio increase of 30db beyond the start of compression the output increases 15 to 16db	
Line control	2 or 4 wire audio	2 or 4 wire audio	2 or 4 wire
Notch filter depth	N/A	-45db (RX) -25db (TX)	40db (RX)
Weight	4lbs 15oz	4lbs 15oz	4lbs 8oz
Dimensions	4.75" (H) x 10" (W) x 8" (D)	4.75" (H) x 10" (W) x 8" (D)	2.4" (H) x 10" (W) x 9.4" (D)

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