

Model 20-28 Remote Termination Panel

The 20-28 is a programmable termination panel, designed 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 allows the operator immediate information as to the remote radio's status, such as channel, in or out of scan, or the current System & Group if used in a trunking application.

Available in TONE or MSK Signaling

The Model 20-28 is field programmable via PC and can be ordered either standard TONE format or out proprietary MSK format. The MSK format, when used along with the Model 24-66MSK, 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 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 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 eight 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).



The Total Solution

Comprising a truly integrated remote control system, the Model 20-28 Termination Panel - along with IDA Model 24-66 Remote Deskset - allows the operator Total Remote Control. The panel and the desksets are always in touch. If the base station radio scans to a different channel or system & group, the panel updates all the desksets and changes their display. If one operator selects a new channel, all the other remote desksets that are installed in parallel keep pace and display the new selection.

Standard or Field Programmable Features

- 2 or 4 wire
- PC Programmable
- Local control option
- Remote update
- Non-volatile memory
- Serial or Binary output
- Tone or MSK signaling
- Selectable input/outputs
- Rugged metal case



Model 20-28

Specifications



Input voltage	10.7Vdc - 18Vdc	Line to TX s/n ratio	> 40dB
Standby current @ 13.8Vdc	75 mA	Line to TX frequency response (300 - 3000Hz) ...	+1, -3dB
Input power (max)	< 3 Watts	Line to TX distortion	< 3%
Temperature range	0 to +70° C	Line to TX output level	30mVRMS - 1.3VRMS into 600 ohms
Relative humidity	90% at 50° C	Line control	2 or 4 wire
Line impedance (1KHz)	600 ohms	PTT, monitor, F1/F2 relay contacts	1 amp - Form C
Receive to line audio output	500 mVRMS - 2.75 VRMS into 600 ohms	F3 thru F8 outputs	Open collector - 100 mA sink
Receive to line s/n ratio	> 50dB (ref +10dBm)	Serial output	RS 232
Receive to line distortion	< 3%	Weight	1 lb. 5 oz. (2.9 kg)
Receive to line frequency response	+1, -3dB	Dimensions	1.5" (h) x 5.5" (d) x 5.5" (w)
Through de-emphasis (300 - 3000Hz)	+1, -3dB at 6dB/octave		

THESE RADIOS CAN BE DIRECTLY CONTROLLED BY THE MODEL 20-28 TONE:

EF JOHNSON RS5300 (Project 25)

Interface cable is IDA part #106-28EF5300. (Requires EFJ cable #597-2002-249.)

MIDLAND BaseTech II

Interface cable is IDA part #106-28MIDBTECH.

KENWOOD TK-7180, TK-8180, TK-5710 (Project 25)

Interface cable is IDA part #106-28KN8180.

DATRON Guardian (Project 25)

Interface cable is IDA part #106-28DATG25.

THESE RADIOS CAN BE DIRECTLY CONTROLLED BY THE MODEL 20-28 MSK:

EF JOHNSON RS5300 (Project 25)

Interface cable is IDA part #106-28EF5300. (Requires EFJ cable #597-2002-249.)

EF JOHNSON SUMMIT

Interface cable is IDA part #106-EFJ28SUM.

EF JOHNSON 9800 series (high tier)

Interface cable is IDA part #105-28EFJ98. (Requires EFJ cable #597-9800-005.)

KENWOOD TK-7180, TK-8180, TK-5710 (Project 25)

Interface cable is IDA part #106-28KN8180.

KENWOOD TK-780/880/980/981

Interface cable is IDA part #106-28KEN880.

KENWOOD TK-790

Interface cable is IDA part #106-28KEN790.

DATRON Guardian (Project 25)

Interface cable is IDA part #106-28DATG25.