

## KP-98-7

### Pushbutton Keypanel

The RTS KP-98-7 is designed to work with the RTS matrix intercom systems, to complement as well as surpass the features of the existing KP-96 and KP-97 keypanels. The KP-98-7 uses the electret mic goosenecks and also has illuminated pushbuttons for the talk and listen functions. Each of these switches has two levels of illumination for clear identification of switch status: dim for off and bright for on. This allows for easy identification in darkened environments. The switches also feature a "digi-action" momentary/latching capability, (momentary operation: press and hold the button, latched operation: tap the button quickly). In addition, an unprecedented capability in matrix-based intercoms is the use of ten lighted pushbuttons as function keys.

### Features

15 talk keys and 15 listen keys are illuminated pushbutton switches

1 Call Answer lighted pushbutton switch with Call Waiting display

Keypad for Programming

Electret microphone/gooseneck 12" MCP-5 standard: 18" MCP-6 available as option

16 4-character green dot matrix alphanumeric display for caller ID.

Keypad for assignment of talk/listen keys and telephone dial-out (on TIF-2000).

All talk keys universally programmable for all functions (pt to pt, IFB, PL, ISO, group call, relays, telephone).

4 pre-assigned keypanel configuration set-ups

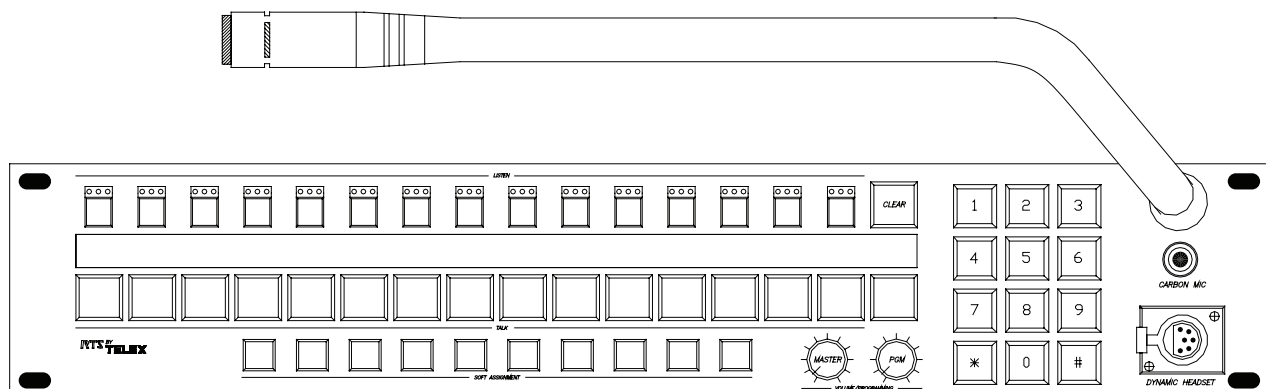
Copy function on keypad transfers calls from call waiting key to any other talk key.

16 pushbutton expansion panel EKP-98-0 available.

Optional KP-96-RC rear connector kit for expansion panels and additional audio input/output connectors (required for EKP-98-0).

Individual crosspoint volume control function available when used with ADAM series matrices.

### Line Drawing



# KP-98-7 Specifications

## Microphone Pre-Amp

Audio Input Level (at 1 kHz): Electret Panel Mic: -50 dBm, 150W

Audio Output Level (at 1 kHz): Main (to Matrix): +8 dBu, 0.2 dBu

Aux (Pre-Amp Out): +8 dBu, 0.2 dBu

Adjustment Range: -1 dBu to +13 dBu

Frequency Response (Ref. 1kHz): Range: 200 Hz to 15kHz, 1 dB Low End: 170 Hz, -3 dB High End: 24kHz, -3 dB

Total Harmonic Distortion (THD): (10 dB above nominal): less than 0.15%, 200 Hz to 15kHz

Dynamic Mic Input Level: -60 dBm typical (150Ω) -35 dBm maximum (150Ω)

Carbon Mic Input Level: -25 dBm typical (50Ω) 0 dBm maximum (50Ω)

Equivalent Input Noise: >115 dBm, unweighted (-120 dBm typical)

AGC/Compressor Ratio: Minimum: 1:1, Maximum: 5:1, Nominal Setup: 2:1

Tone Oscillator: Frequency: 400 Hz, 2%

Output Level (to Matrix): +8 dBu, 0.5 dB Nominal

## Speaker/Headset Amplifier

Audio Input Level (1kHz):

Main Input: 0 to +8 dBm typical +20 dBm maximum

Loudspeaker Level: 3 Watts, 8 Ω External Input: +8 dBu

Input Adjustment Range (for rated output): -2 to +14 dBu

Headset Output: 500 mW, 8 Ω

Audio Output Level: (1kHz): Loudspeaker Output: 3 Watts, 8 Ω

Headset Output: 500 mW, 8 Ω

Frequency Response: 200 Hz to 7kHz, 1 dB

Total Harmonic Distortion (THD): Less than 0.25% at full output, 200 Hz to 10kHz

Signal to Noise Ratio: 90 dB

Audio Volume Control Range: 30 dB

Common Mode Rejection: 60 dB, 120 Hz

Loudspeaker Mute: Full: 70 dB Partial: 15 dB, Adjustable

Headset Mute: Maximum: 34 dB Nominal: 6 dB

Sidetone: Maximum: 50 dB below Ref. Output Nominal: 30 dB below Ref. Output

## Power Supply

Power Entry Module: CSA/UL/IEC/CE approved, with on/off switch and safety interlock fuse holder (prevents fuse removal while power cord is plugged in).

AC Primary: 115 VAC ±10%, 50/60 Hz (230 VAC ±10% available as factory option)

AC Power Rating: 30 VA

AC Fuse Rating: 115 VAC: ¾ Amp 230 VAC: ¼ Amp

DC Unregulated: 15 Vdc, 10% +12 Vdc, 5% +5 Vdc, 5%

DC Regulated: 15 Vdc, 5% +12 Vdc, 5% +5 Vdc, 5%

## Mechanical

Dimensions: H: 3½" (98 mm), W: 19" (483 mm), D: 7" (178 mm)

Weight: 10 lbs (4.54 kg)

Connector Pin Configurations: Headset Connector Type: 4-pin female XLR on front panel, 9-pin DB-9 male connector on rear panel

Serial Communication: Data: Single Pair, half duplex RS-422 Serial 9,600; 76,800 BPS

## Contact Information

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## Ordering Information

### KP-98-7

Pushbutton keypad

Catalog Number: 90007410XXX

This specifications information is preliminary and is subject to change without notification.  
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