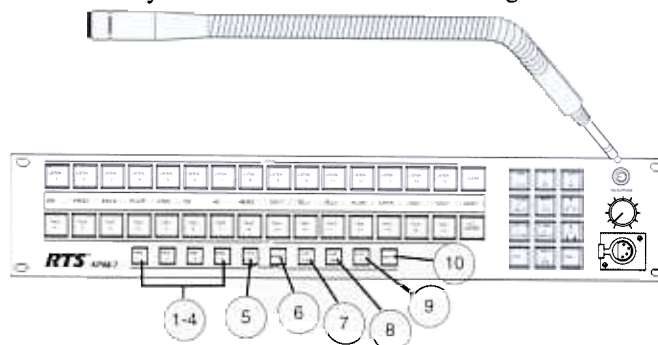


FEATURES AND BENEFITS

- ☐ 15 talk keys and 15 listen keys are illuminated pushbutton switches.
- ☐ 1 Call Answer lighted pushbutton switch with Call Waiting display.
- ☐ 10 assignable pushbutton function keys.
- ☐ Removable electret microphone/gooseneck
 12" MCP5 standard; 20" MCP6 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-951).
- ☐ All talk keys universally programmable for all functions (pt to pt, IFB, PL, ISO, group call, relays, telephone).
- ☐ 4 pre-assigned keypad configuration set-ups
- ☐ Copy function on keypad transfers calls from call waiting key to any other talk key.
- ☐ 16 pushbutton expansion panel EKP98-0 available.
- ☐ Optional KP96-RC rear connector kit for expansion panels and additional audio input/output connectors (required for EKP98-0).
- ☐ Individual crosspoint volume control function available when used with ADAM series matrices.

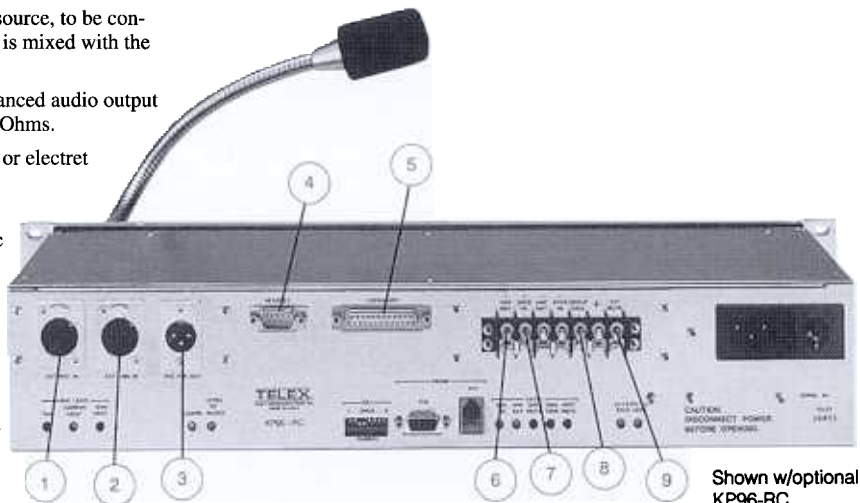
The RTS™ KP98-7 is designed to work with the RTS™ CS9000 digital matrix intercom system, including the ADAM™ series of matrices and to complement as well as surpass the features of the existing KP96 and KP97 keypanels. The KP98-7 uses the MCP-5 or MCP-6 removable electret mic goosenecks and also has 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 10 lighted pushbuttons as function keys. The standard switch configuration is:



Key	Function
1-4	Page Select Keys
5	Shows listen key assignments
6	Initiates telephone answer and dial out sequences (with optional TIF-951 telephone interface)
7	Point to point scrolling of intercom users
8	IFB scrolling
9	PL scrolling
10	Headset transfer (turns off gooseneck/mic and loudspeaker)

- 1 **EXT MIC IN:** Provides a second microphone, dynamic or electret, used with or without a front panel gooseneck mic of the same type.
 - 2 **EXT LINE IN:** Allows an external balanced audio source, to be connected to the internal amplifier. This external source is mixed with the intercom audio of the keypanel.
 - 3 **MIC PRE OUT:** Provides a separated, isolated, balanced audio output for auxiliary use. The level is +8 dBu nominal at 60 Ohms.
 - 4 **HEADSET:** Connects an external dynamic, carbon, or electret headset.
- EXPANSION:** The expansion connector allows an EKP Series expansion panel to be used with the basic keypanel, thereby providing the user with up to 32 talk or listen keys.
- 6 **AMP OUT:** Provides audio output signal to drive an 8 Ohm, 3 Watt speaker.
 - 7 **SPKR IN:** Normally connects to internal speaker. The internal speaker may be disabled by removing the factory provided jumpers to redirect the output to an external speaker.
 - 8 **GROUP CALL:** Allows a footswitch to activate all talk keys that are latched "ON".

- 9 **EXT MUTE:** Used to drive external devices such as open-collector circuits.



Shown w/optional KP96-RC

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. 1 KHz): Range: 200 Hz to 15 KHz, 1dB
Low End: 170 Hz, -3 dB High End: 24 KHz, -3 dB
Total Harmonic Distortion (THD)
(10 dB above nominal): less than 0.15%, 200 Hz to 15 KHz
Dynamic Mic Input Level:
-60 dBm typical (150 ohms) -35 dBm maximum (150 ohms)
Carbon Mic Input Level:
-25 dBm typical (50 ohms) 0 dBm maximum (50 ohms)
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 ohms External Input: +8 dBu
Input Adjustment Range (for rated output): -2 to +14 dBu
Headset Output: 500 mW, 8 ohms
Audio Output Level: (1 KHz): Loudspeaker Output: 3 Watts, 8 ohms
Headset Output: 500 mW, 8 ohms

Frequency Response: 200 Hz to 7 KHz, 1 dB

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

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: 6/10 Amp 230 Vac: 1/4 Amp

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

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

MECHANICAL:

Height: 98 mm (3 1/2 inches) Width: 483 mm (19 inches)

Depth: 178 mm (7 inches) Weight: 4.54 kg (10 lbs.)

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

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