



## KP-832

### 10- or 20-Position Keypanel

The RTS Model KP-832 keypanel mounts in a standard 19" equipment rack, is two rack spaces high and has 20 lever keys: 20 keys for intercom talk/listen assignment; 1 key for call waiting respond/clear; and 1 key for headset/microphone switching. The KP-832, like the KP-32 keypanel, combines all of the programmable features of the KP-9X and KP-12 series of keypanels. It adds significant new features such as digital signal processing and binaural headset operation with left/right assignment of audio signals. The KP-832 introduces large LCD displays with adjustable backlighting. These new displays allow for a total of 8 characters per key which translates into more naming possibilities.

## Features

Large LCD displays that provide 8 characters per lever key. Provides good contrast with adjustable backlighting over a wide range of light conditions.

10 or 20 lever keys, with 8 or 18 keys available for full Talk/Listen configuration. Keys support both latching (hands-free) and momentary (push-to-talk) operation.

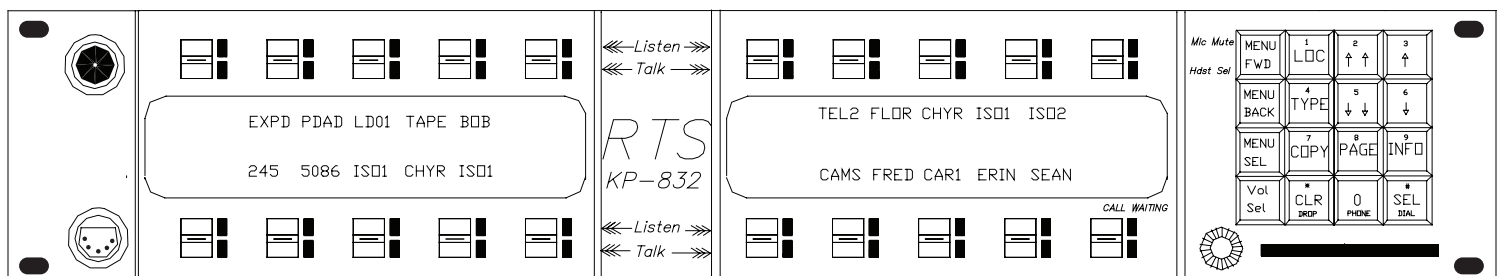
Enhanced programming keypad. Provides the complete keypad command subset, plus new keypad commands and an extensive scrollable menu system. Menus include helpful prompts to walk the user through setup.

Only 90 mm deep behind the front panel (approximately 130 mm with connectors). Perfect for consoles, OB vans, etc.

Digital Signal Processing (DSP) Improves microphone voice activation and limiting. Adds new mixing, metering and filtering capabilities.

Binaural (5-pin or 4-pin) Headset Connector: Works with the DSP mixing feature. Lets you independently assign intercom, mic, and program audio to left or right headphone.

## Line Drawing



# KP-832 Specifications

## Microphone Preamplifier

Panel Mic (Electret) Input Level: -42 dB, 150  $\Omega$  @ 1kHz  
Headset Mic (Dynamic) Input Level: -50 dBm, 150  $\Omega$  @ 1kHz  
Output Level (to matrix): +8 dBu,  $\pm$  0.2 dBu  
Max Voltage Gain, Mic to Line: 70 dB,  $\pm$  2 dB  
Frequency Response: 100 Hz to 10 kHz,  $\pm$  2 dB  
Limiter: 8 dB above nominal

## Tone Generator

Output Level (to matrix): +8 dBu  $\pm$  2 dBu  
Output Frequency: 500 Hz

## Headphone Amplifier

Maximum Voltage Gain: 10 dB  
Frequency Response: 100 Hz to 10kHz,  $\pm$  2 dB  
Headphone Impedance: 8 to 600  $\Omega$   
Output Power: 300 mW into 50  $\Omega$   
Output Voltage Level: 8 volts peak-to-peak (max.)  
Sidetone Range: 25 dB or mute

## Speaker Amplifier and Speaker

Maximum Voltage Gain: 25 dB  
Frequency Response: 100 Hz to 10kHz,  $\pm$  2 dB  
Output Power (per amplifier): 4 watts into 4  $\Omega$   
Output Voltage Level: 12 volts peak-to-peak (max.)  
Volume Control Range: 52 dB  
Speaker Rating: 4 watts max

## Intercom Balanced Line Input/Output

Input Level: Nominal: +8 dBu. Peak:  $\pm$  20 dBu max.  
Input Impedance: 22k  $\Omega$   
Output Level: +8 dBu,  $\pm$  2 dBu nominal  
Output Impedance: 60  $\Omega$

## External Balanced Line Input: (Program Input)

Input Level +8 dBu nominal

## General

AC Supply: External, switching type, 100-240 VAC, 50/60 Hz with locking DIN connector for attachment to the keypad and universal IEC connector for connection to various AC mains cords

Environmental:

Storage: -40°C to +60°C

Operating: -10°C to +41°C

## Dimensions

19" (482.6 mm) W x 3" (76.2 mm) H x 3.5" (90 mm) D

## Weight

6.3 lbs (2.85 kg)

## Connectors (Other connector options available)

Panel Microphone Connector (Electret)

Type: 3-circuit, 1/4" phone jack w/threaded metal bushing, compatible w/ RTS MCP-90-XX

Pin-out:

Tip: Audio+ and DC bias

Ring: Common

Sleeve: Chassis ground

Headset Connector (Dynamic)

Type: XLR-5 female

Pin-out: Pin 1: Mic low; Pin 2: Mic high; Pin 3: Common; Pin 4: Headphone left high; Pin 5: Headphone right high

## Power Input Connector

Type: 5-pin locking DIN

Pin-out: Pin1: Common; Pin2: Common; Pin3: +5VDC, 1.50A Max.; Pin4: -15VDC, 0.150A Max.; Pin5: +15VDC, 0.5A Max.

## Intercom Connectors: Parallel-wired DB9S and RJ-12 Connectors

Type: DB9S

Pin-out: Pin 1: Data +; Pin 2: Data -; Pin 3: Audio in (from matrix) shield; Pin 4: Audio out (to matrix) (+); Pin 5: Audio out (to matrix) (-); Pin 6: Data shield; Pin 7: Audio in (from matrix) (-); Pin 8: Audio in (from matrix) (+); Pin 9: Audio out (to matrix) shield  
Type: RJ-12

Pin-out: Pin 1: Data -; Pin 2: Audio in (from matrix) (+); Pin 3: Audio out (to matrix) (+); Pin 4: Audio out (to matrix) (-); Pin 5: Audio in (from matrix) (-); Pin 6: Data +

## Expansion Connector

Type: RJ-45

## LCP Connector

Type: RJ-45

## Contact Information

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Burnsville, Minnesota 55337  
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Form Number: 38110-114

Date: April, 2006

## Ordering Information

### KP-832/10

10-position keypad

Catalog Number: 90007719006

### KP-832/20

20-position keypad

Catalog Number: 90007719004

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

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