



DESCRIPTION

The RTS™ Model KP-632/24 Keypanel mounts in a standard 19" equipment rack, is two rack spaces high and has 24 lever keys: 22 keys for intercom talk/listen assignment; 1 key for call waiting respond/clear; and 1 key for headset/microphone switching. The KP-632/24, like the KP-32 keypanel, combines all of the programmable features of the KP9X 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-632/24 introduces large LCD displays with adjustable backlighting. These new displays allow for a total of 6 characters per key which translates into more naming possibilities.

FEATURES

- Large LCD displays that provide 6 characters per lever key. Provides good contrast with adjustable backlighting over a wide range of light conditions.
- 24 lever keys, with 22 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 KP9X keypanel 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) Headset Connector: Works with the DSP mixing feature. Lets you independently assign intercom, mic, and program audio to left or right headphone. Note: monaural (4-pin) connector available as an option. For monaural operation, the mixer lets you select which items are monitored in the headphones.
- Upgradeable. Firmware updates can be received via the internet, for example, and then downloaded to the KP-632 via the intercom connection. Firmware is available in both English and Japanese Katakana character sets.
- Optional General Purpose Interface (GPI)/Connector module: Can be installed either in the factory or in the field. Provides a variety of audio and logic inputs and outputs.
- Optional EKP-632 Expansion Panel: Provides additional Talk/Listen keys. Multiple panels can be used to achieve a total of 64 Talk/Listen keys.

ARCHITECTURAL & ENGINEERING SPECIFICATIONS

The unit shall mount into a standard 19" equipment rack and consume 2 RU of space. It shall use backlit LCD displays providing 6 alphanumeric characters per key. The unit shall work with standard RTS headsets and MCP-90 panel microphones. It shall have 24 keys that can function either as momentary or latching. The unit shall utilize DSP for advanced audio processing functions. It shall have an optional expansion kit to provide additional audio inputs, outputs, and contact/relay closures. The unit shall have the ability through expansion panels to attain a total of 64 keys. It shall have an external, power supply capable of operation from 100-240 VAC, 50/60 Hz.

The unit shall have the programmable features/commands of the KP9X and KP-12 Series Keypanels, as well as, new commands/features. The unit's firmware shall be field upgradeable via the intercom system.

PLEASE CONTACT US

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SPECIFICATIONS

Microphone Preamplifier

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

Tone Generator

Output Level (to matrix):
+8 dBu ± 2 dBu
Output Frequency:
500 Hz

Headphone Amplifier

Maximum Voltage Gain:
10 dB
Frequency Response:
100 Hz to 10 kHz, ± 2 dB
Headphone Impedance:
8 to 600 ohms
Output Power:
300 mW into 50 ohms

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 10 kHz, ± 2 dB
Output Power (per amplifier):
4 watts into 4 ohms
Output Voltage Level:
12 volts peak-to-peak (max.)
Volume Control Range:
30 dB
Speaker Rating:
4 watts max

Intercom Input/Output

Input:
Nominal: +8 dBu.
Peak: ± 20 dBu max.
Output:
+8 dBu, ± 2 dBu nominal
External Line Input: (Program Input)
Input Level
+8 dBu nominal

General

AC Supply:
External, switching type,
100-240 VAC, 50/60 Hz

Environmental:

Storage: -40°C to +60°C
Operating: -10°C to +41°C
Dimensions: 19" wide x 2RU x
3.5" (90 mm) deep

Approvals:

UL, CSA, VDE, CE

Standard Connectors:

Panel Microphone Connector

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

Headset Connector

Type: XLR5 female

Power Input Connector

Type: 5-pin locking DIN

Intercom Connectors

Parallel-wired DE9S and RJ12 Connectors

Expansion Connector

Type: RJ45

LCP Connector

Type: RJ45

FRONT AND REAR PANEL FEATURES



1. Gooseneck microphone connector.
2. Binaural, dynamic-mic headset connector. Supports left/right headphone assignment of mic, intercom and program $\frac{1}{2}$ audio.
3. Large, backlit LCD, 6-character alphanumeric display for each key.
4. Intercom/phone keys with separate talk and listen status indicators. Keys can be assigned for all types of talk/listen activation.
5. Microphone on/off (toggle up) and Headset on/off (toggle down).
6. Call waiting key, with talk (down) and clear (up) positions.
7. Master volume control and bar-graph level display. The display can also be set to meter intercom audio, or mic audio, or program $\frac{1}{2}$ audio when not adjusting volume.
8. Programming keypad and scroll menu access. (Speaker behind keypad.)
9. Optional GPI/Connector module slot.
10. Power supply connector (locking DIN type).
11. Option switches.
12. Rotary keypad Address selector.
13. Expansion connector for daisy-chain connection of Expansion Keypads (EKP) and Level Control Panels (LCP). Currently the LCP is not supported.
14. Parallel-wired DB9 and RJ12 connectors for connection to the intercom system.