



KP-32
32-Position Keypanel



KP-32/16
16-Position Keypanel

KP Keypanels

The RTS® Model KP-32 keypanel fits in a standard 19" rack and is two rack spaces high. It has 32 lever keys: 30 keys are for intercom talk/listen assignment; one key is for call waiting response; and one key is for headset/microphone/program selection and volume setup. The KP-32 combines all of the programmable features of the KP-9X Series keypanels and the KP-12 keypanel. It adds significant new features such as digital signal processing and binaural headset operation with left/right assignment of audio signals. The KP-32 also introduces large, super-bright, long-life fluorescent displays with adjustable brightness control, making it suitable for all types of ambient lighting from direct sunlight to darkness.

Features

Super-bright, fluorescent displays: Provide much better visibility and usable life than LCD displays. A display saver mode with programmable scrolling message extends display life and conserves power during periods of inactivity.

32 lever keys, with 30 keys available for full talk/listen configuration: Doubles the number of channels over the KP-9X series keypanels. Keys support both latching (hands-free) and momentary (push-to-talk) operation.

Enhanced programming keypad: Provides the complete KP-9X keypad sequences, plus new keypad sequences, plus 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.

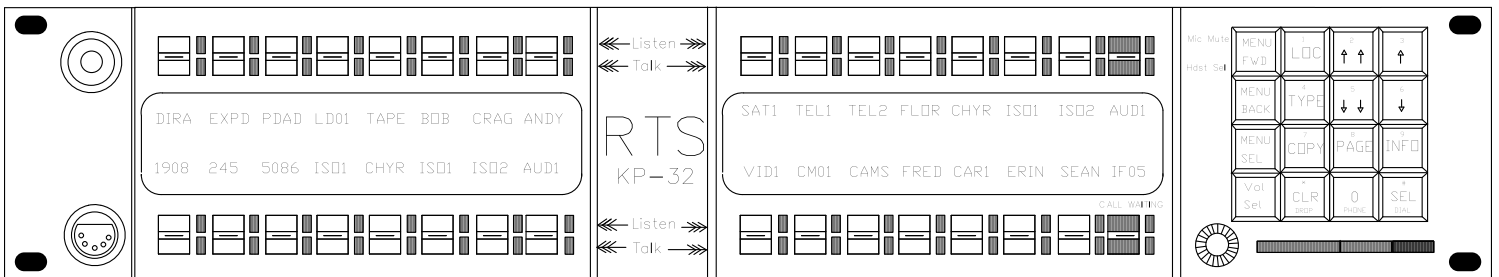
Digital Signal Processing (DSP): Improves microphone voice activation and limiting. Adds new mixing, metering, and filtering capabilities.

Binaural (5-pin) Headset Connector: Works with the DSP mixing feature. Lets you independently assign intercom, microphone, 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.

Easy upgrades: Firmware updates can be received via the internet, for example, and then downloaded to the KP-32 via the intercom connection. Ready for future communication enhancements, including coax, fiber, and ISDN. (For further information, search for keyword "firmware" in AZedit help.)

Line Drawing



KP-32 Specifications

KP-32 Specifications

Microphone Preamplifier

Electret Mic Input Level @ 1 kHz:
-42 dB, 150

Dynamic Mic Input Level @ 1 kHz:
-50 dBm, 150

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: 200 dB

Frequency Response: 100 Hz to 10
kHz, ± 2 dB

Headphone Impedance: 8 to 600

Output Power: 1 W into 50

Output Voltage Level: 8 volts peak-
to-peak (max.)

Sidetone Range: 25 dB

Speaker Amplifier & Speaker

Frequency Response: 100 Hz to 10
kHz, ± 2 dB

Output Power (per amplifier): 4
watts into 4

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 with locking
DIN connector for attachment to the
keypanel and universal IEC con-
nector 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 Op- tions Available)

Panel Microphone Connector

Type: 3-circuit, ¼" phone jack w/
threaded metal bushing, compat-
ible w/ RTS® MCP5/6

Pin-out

Tip: +Audio and DC bias

Ring: Common

Sleeve: Chassis ground

Headset Connector

Type: XLR-5 female

Pin-out

Pin 1: Mic low; Pin 2: Mic high;

Pin 3: Common; Pin 4: Head-

phone left high; Pin 5: Head-

phone 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

KP-32-RC Specifications

EXT MIC IN External balanced dynamic-mic connector

Type: 3-pin Female XLR Audio Con-
nector

Pin 1: Shield (circuit common); Pin

2: Mic input +; Pin 3: Mic input -

EXT LINE IN Balanced Program Audio Input

Type: 3-pin Female XLR Audio Con-
nector

Pin 1: Shield (circuit common);

Pin 2: Audio input -; Pin 3: Audio

input +

MIC PRE OUT Unswitched, Bal- anced Microphone Output

Type: 3-pin Female XLR Audio Con-
nector

Pin 1: Shield (circuit common);

Pin 2: Audio output -; Pin 3: Audio

output +

HEADSET External Headset Con- nector

Type: 9-Pin Male D-sub

Pin 1: External balanced dynamic

mic input -; Pin 2: External bal-

anced dynamic mic input shield

(common); Pin 3: Headset bal-

anced dynamic mic input +; Pin

4: Headset balanced dynamic

mic input -; Pin 5: Headphone +;

Pin 6: External balanced dynamic

mic input +; Pin 7: Electret mic

audio input + and +5VDC bias;

Pin 8: Electret mic common; Pin 9:

Headphone -

SPKR External Speaker Output (8 min, 2 watts max)

Type: 3-Conductor, ¼ inch phone
jack

Tip: Speaker +

Ring: Speaker -

Sleeve: No connection

Ordering Information

KP-32; 32-position keypanel; Catalog Number:
90007656XXX32

KP-32/16; 16-position keypanel; Catalog Number:
90007656XXX16

KP-32/RC; Rear connector kit for KP-32, KP-632 &
KP-832; Catalog Number: 90207680000

KP-32 power supply mounting kit; Catalog Number:
90027656000

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

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