KB-802GM-IM Remote Speaker Station

Industrial and Marine Analog Partyline Systems

Clear-Con

KB-802GM-IM



Together

Key Features and Benefits

- Selectable two-channel, full-duplex operation
- IP-20 environmental rating
- Asbestos-free in accordance with SOLAS Regulation II-I/3-5.2
- Marine Certification compliant with DNVGL-CG-0339 (2016)
- Microprocessor-controlled logic and switching
- Momentary/latching talk button
- Visual and audible call signaling, with bright LED indicator
- Balanced local program input with ٠ separate level control
- Internal controls for call signal tracking, mic latch disable, and other functions
- Use with headset or handset, with integral speaker for monitoring
- Mic jack for gooseneck mic plus VOX circuitry
- Optional 4-wire daughter boards provided additional exibility
- Wall or console mount, or optional V-Box for portable or desktop use
- LED buttons for talk, listen, call, announce, link, all talk, or mic on.

Industrial and Marine products for use in harsh environments, certified in accordance with DNVL-CG-0339, with Compass Safety Distance conformity, and asbestos-free.

Description

The KB-802GM-IM remote speaker station permits the user to select between two channels of partyline communications, with the ability to talk and/or listen on the selected channel. The user can listen via the integral speaker, or may use a headset or telephone-style handset - and can talk via a gooseneck mic, headset mic, a telephone handset, or a push-to-talk microphone.

Operation

A switch allows the user to choose between the optional GM-9 or GM-18 microphone and the headset connector. The adjustable sensitivity, close-in VOX feature automatically detects the user's voice at the mic and dips the level of the integral speaker while increasing the gain of the microphone, performing in the opposite manner when listening. The potential for acoustic feedback is minimized while permitting natural conversation levels and dynamics.

Microprocessor-controlled logic and switching yields a feature-rich intercom station in a compact format. Electronic switching for the talk button, blue-color LED (on), amber color LED (off), permits momentary or latching operation. For call signaling, a bright LED lights when a call is activated on a connected intercom channel. A defeatable audible call signal, with level control, is also provided. Separate level controls are provided for intercom level and for balanced program input. A local program source may be fed to the station, allowing the user to monitor that source while remaining in contact on the intercom system. The balanced program input can also be used in conjunction with the stage-announce output of a main station to provide a paging interrupt, allowing paging at the KB station even if the intercom volume control is turned down.

Mounting Options

The KB-802GM-IM may be wall or console mounted in a standard 4-gang electrical box. or may be mounted in the optional V-Box for desktop, surface-mount, NEMA enclosure, or portable applications. It may be used with the optional 4-wire daughter boards. The 4-wire board creates separate send and receive circuits, so that the station may be attached to ber-optic lines or other audio routing systems with 4-wire connections. The stations are powered by the intercom line or by a local power supply when used with the optional 4-wire daughter board.



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Technical Specifications

dBu is an absolute measurement. 0 dBu is referenced to 0.775 volts RMS

Panel Microphone Input

Input Type: Electret Input Impedance: >=2K Mic Limiter Threshold: -2dBu ±3dB Mic Limiter Range: >= 15dB

Headset Microphone Input

Input Type: Dynamic Input Impedance: >= 1K Mic Limiter Threshold: -2dBu ± 3dB Mic Limiter Range: >= 15dB

Program Line Input

Maximum Level before Clipping: >= 20dBu Input Impedance: >= 5K

Headset Output

Load Impedance: >= 8 Output Impedance: <= 25 Output Limiter Threshold: +5dBu ± 3dB Maximum Output Level before Distortion: >= 17dBu

Speaker Output

Load Impedance: >= 4 Max Output Level before 1% Distortion: 20dBu ± 2dBu

Partyline Output

Off Noise: < -74dBu Output Impedance: >10K

Partyline Input

Crosstalk: < -60dB Max level before Clipping : >= 12dBu Sidetone Null Capability: > 25dB

Frequency Response

 $\label{eq:panel_states} \begin{array}{l} \mbox{Panel Mic - Partyline: } 300 - 16 \mbox{KHz} \pm 3 \mbox{dB} \\ \mbox{Headset Mic - Partyline: } 300 - 15 \mbox{KHz} \pm 3 \mbox{dB} \\ \mbox{Program Input - Headset Out: } 200 - 18 \mbox{KHz} \pm 3 \mbox{dB} \\ \mbox{Partyline - Headset Out: } 200 - 18 \mbox{KHz} \pm 3 \mbox{dB} \\ \mbox{Partyline - Speaker Out: } 200 - 18 \mbox{KHz} \pm 3 \mbox{dB} \\ \mbox{Partyline - Speaker Out: } 200 - 18 \mbox{KHz} \pm 3 \mbox{dB} \\ \mbox{Partyline - Speaker Out: } 200 - 18 \mbox{KHz} \pm 3 \mbox{dB} \\ \mbox{Partyline - Speaker Out: } 200 - 18 \mbox{KHz} \pm 3 \mbox{dB} \\ \mbox{Partyline - Speaker Out: } 200 - 18 \mbox{KHz} \pm 3 \mbox{dB} \\ \mbox{Partyline - Speaker Out: } 200 - 18 \mbox{KHz} \pm 3 \mbox{dB} \\ \mbox{Partyline - Speaker Out: } 200 - 18 \mbox{KHz} \pm 3 \mbox{dB} \\ \mbox{Partyline - Speaker Out: } 200 - 18 \mbox{KHz} \pm 3 \mbox{dB} \\ \mbox{Partyline - Speaker Out: } 200 - 18 \mbox{KHz} \pm 3 \mbox{dB} \\ \mbox{Partyline - Speaker Out: } 200 - 18 \mbox{KHz} \pm 3 \mbox{dB} \\ \mbox{Partyline - Speaker Out: } 200 - 18 \mbox{KHz} \pm 3 \mbox{dB} \\ \mbox{Add B} \\ \mbox{Partyline - Speaker Out: } 200 - 18 \mbox{KHz} \pm 3 \mbox{dB} \\ \mbox{Partyline - Speaker Out: } 200 - 18 \mbox{KHz} \pm 3 \mbox{dB} \\ \mbox{Partyline - Speaker Out: } 200 - 18 \mbox{KHz} \pm 3 \mbox{dB} \\ \mbox{Partyline - Speaker Out: } 200 - 18 \mbox{KHz} \pm 3 \mbox{dB} \\ \mbox{Partyline - Speaker Out: } 200 - 18 \mbox{KHz} \pm 3 \mbox{dB} \\ \mbox{Partyline - Speaker Out: } 200 - 18 \mbox{KHz} \pm 3 \mbox{dB} \\ \mbox{Partyline - Speaker Out: } 200 - 18 \mbox{KHz} \pm 3 \mbox{dB} \\ \mbox{Partyline - Speaker Out: } 200 - 18 \mbox{KHz} \pm 3 \mbox{dB} \\ \mbox{Add B} \\ \mbox{Add B} \\ \mbox{Add B} \mbox{Add B} \\ \mbox{Ad$

Max Distortion

Panel Mic - Partyline: <= 0.5% Headset Mic - Partyline: <= 0.5% Program Input - Headset Out: <= 0.2% Program Input - Speaker Out: <= 0.5% Partyline - Headset Out: <= 0.5%

Noise

Panel Mic - Partyline: < -65dBu Headset Mic - Partyline: < -70dBu Program Input - Headset Out: < -60dBu Program Input - Speaker Out: < -60dBu Partyline - Headset Out: < -50dBu Partyline - Speaker Out: < -50dBu

Max Gain

Panel Mic - Partyline: >= 37dB Headset Mic - Partyline: 41dB ± 2dB Program Input - Headset Out: >= 18dB Program Input - Speaker Out: >= 24dB Partyline - Headset Out: >= 34dB Partyline - Speaker Out: >= 40dB

Power

Input Voltage Range: 20-30 VDC Input Current (Idle): <= 90mA Input Current (Max): <=110mA

Internal Adjustments and Connections

Intercom: Line Five terminal connector Program Input Three terminalconnector Option Switches: Three DIP switches Call Signal Jumper3: Three sets of options jumpers Call Alert Tone Level Control: Level adjustment control

Front Panel Connectors

Panel Mic: (1) 1/4 in. (0.64 cm) panel mounting jack **Headset:** (1) XLR-4M

Front Panel Controls & Indicators

Panel /headset mic switch
Program monitor level control
Sidetone null control
Talk button
Talk button
Call button
Speaker ON-OFF switch
Channel select switch
Speaker volume control
YOX control
VOX control
VOX indicator

Environmental

32 - 122°F (0 - 50°C)

Relative Humidity: 0 - 96%, non-condensing Vibration Frequency Range: 2 - 13.2 Hz Amplitude: 1.0 mm Peak Value Frequency Range: 13.2 - 100 Hz, Acceleration Amplitude: 0.7 g

EMC: DNVGL-CG-0339 - Class B

Enclosure: IP-20

Dimensions

4.5 x 8.25 x 1.75 (HxWxD) (114 x 210 x 44 mm)

Weight 1.1 lbs (0.50 Kg)

Certifications and Compliance

This device complies with part 15 of the FCC Rules.

This device complies with European Union CE Mark:

- Electromagnetic Compatibility Directive 2014/30/EU
- Low Voltage Directive 2014/35/EU
- RoHS Directive 2011/65/EU
- Standards: EN 55032, EN 55024, EN 60950-1, EN 50581

This device complies with Maritime Certification:

- Conformity with DNVGL-CG-0339 Edition November 2016
- Asbestos-free in accordance with SOLAS Regulation II-I/3-5.2
- Compass Safety Distance conformity per DNVGL-CG-0339 and IEC 60945

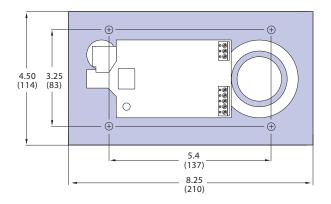




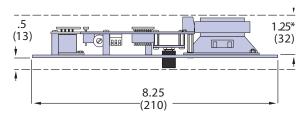
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Rear View



Top View



Order Code

KB-802GM-IM



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