INTEVIO Master Control Unit and Push-to-talk Microphone

RK-MCU / HN-PTT

Honeywell INTEVIO Public Address and Voice Alarm range

Honeywell's INTEVIO Public Address and Voice Alarm system is the ideal solution for operators of small and mid-sized buildings. It offers a cost effective, integrated system providing a stabile, flexible and easy to use PA/VA solution.

RK-MCU *HN-PTT*

DESCRIPTION

RK-MCU Master Control Unit is the central management device of the INTEVIO PA/VA system, which is used to manage and monitor all devices and perform various operations. RK-MCU provides audio storage, broadcast, zone control, monitoring, timing control and fault diagnosis functions.
The built-in 500W digital power amplifier can drive upto 8 loudspeaker lines to meet requirements for smaller PA/VA applications. It can also be connected to zone expanders to increase system capacity for the requirements of large applications.

FUNCTIONS

The controller integrates multiple functions such as audio storage, playback, zone control, audio monitoring, scheduled broadcast and fault diagnosis.

Automatic fault diagnosis

The INTEVIO system is a fully monitored system with the ability to supervise and report faults related to the main power, backup power, CPU, microphone, amplifiers, loudspeaker circuits and dry contacts. Fault details are displayed on the LCD screen with fault logs stored in the internal memory.

Allow all calls even when the CPU malfunctions

If the CPU of the RK-MCU fails the INTEVIO system will still allow the user to make paging announcements (All Call) using the PTT Microphone in case of emergencies.

Scheduled broadcast with built-in timer

RK-MCU has a built-in timer and supports configurable scheduled broadcast.

Record and play

RK-MCU allows users to record temporary messages into its built-in 1GB memory with the PTT microphone or the call station and broadcast without configuration. This delivers improved operational efficiency, in applications such as small shopping malls/supermarkets where promotional messages are updated frequently.

Cost saving amplifier backup solution

RK-MCU has a built-in amplifier automatic switch-over function and allows different amplifier backup configurations to address the needs of different applications. To back up all the amplifiers in the system, a minimum of one standby amplifier is sufficient, which greatly reduces the ownership cost on standby amplifiers.

FEATURES

- Integrated public address and voice alarm system controller
- Maximum 8 loudspeaker zones with a maximum power rating of 500W for each speaker line
- 10 supervised dry contact inputs and 8 dry contact outputs
- Built-in 500W Class-D power amplifier

- Increased operational efficiencies: plug and play, record and play, interaction between LCD and buttons.
- Integration with third party systems, such as fire alarm systems through dry contacts
- Integrated recorder, timer, audio monitor and one-for-all backup amplifier solutions

- Supports for both single and dual channel
- Two auxiliary inputs and one MIC/LINE input
- Support for external power amplifiers
- Built-in standard configuration allows use directly following installation. System functionality can also be programmed via configuration software

- Built-in 1GB Flash memory and 4GB SD card, for storage of audio files, recording files, configuration data and log files.
- Management of all public address and emergency broadcast devices on the system, providing device status information and control via the LCD screen.

- Flexible power amplifier redundancy. One spare amplifier can back up all amplifiers in the system.

RK-MCU Technical Specifications

PARAMETERS	VALUES
Main power supply	AC 100V-240V 50/60Hz
Backup power supply	21.5V DC - 28.5V DC
Fuse	T10AH 250V
Power consumption	<740W
PTT MICROPHONE	
Sensitivity	-59±3dBV
Frequency response	100Hz -14KHz, ±3dB
SNR	>50dB, A-weighted
AUXILIARY INPUT	
Number	2
Input sensitivity	1V(0dBV)
Input impedance	10 KΩ
Frequency response	85Hz-18KHz, ±3dB
SNR	>80dB, A-weighted
MIC/LINE INPUT	
Input sensitivity	5mV/1V, set by DIP switch
Input impedance	20 KΩ
Frequency response	80Hz-18KHz, ±3dB
SNR	>80dB, A-weighted
Phantom power output	24V DC, set by DIP switch
AUDIO OUTPUT	
Output channels	CH1, CH2 and record
Output signal	1V (0dBV)
THD	<0.1%
INTERNAL POWER AMPLIFIER	
Max. output power into load of 20Ω	500W (for interval speech announcements, background music)
Rated RMS output power into load of 25Ω	400W (for continuous speech announcements, background music and all test conditions EN54/SPL/STI)
Output signal	100V(CH1A)
Frequency response	80Hz-18KHz, ±3dB
THD	<0.1%

POWER AMPLIFIER INTERFACE	
Number	3 (CH1, CH2 and spare amplifier)
Output signal	1.4V
THD	<0.1%
Control signal	Self-testing, amplifier fault and power saving control signal
Loudspeaker Interface	
Zone Number	8 (each has A and B output)
CONTACT INPUT / OUTPUT	
Contact input	10 contact input interfaces with supervision
Contact output	8 contact output interfaces (NO, NC and COM), "Fault" output and "Alarm" output.
Maximum voltage of the outputs	AC 250V/DC 30V
Maximum current of the outputs	2.5A
OTHERS	
DC Power output	24V/1A
Monitoring loudspeaker	2W/8Ω
Ethernet interface	10M/100M
Memory capacity	1GB Flash Memory, 4GB SD card
WORKING CONDITIONS	
Relative Humidity	<95%, without condensing
Operating temperature	-10ºC~+50ºC(14ºF to +122ºF)
Storage temperature	-40ºC~+70ºC(-40ºF to +158ºF)
SPECIFICATION	
Dimension (W*H*D)	482 mm×133.5 mm ×420 mm
Packing dimension (W*H*D)	580 mm×279 mm ×552 mm
Net weight	14.3Kg
Gross weight	17.4Kg

CERTIFICATIONS AND APPROVALS

CATEGORY	REGION	CERTIFICATION
Voice Alarm	Europe	EN54-16 Certified
Safety	Europe	CE/CB Certified

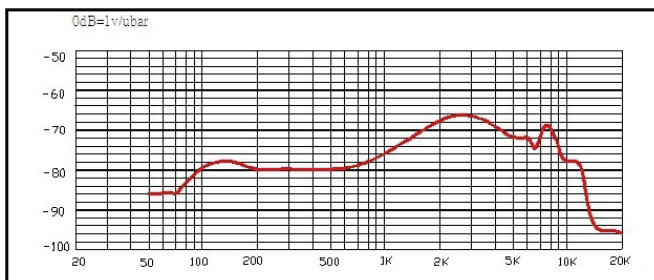# HN-PTT Technical Specifications

FEATURES

- Push to talk microphone
- Superior voice reproduction
- User-friendly operation
- Durable construction
- Dynamic transducer
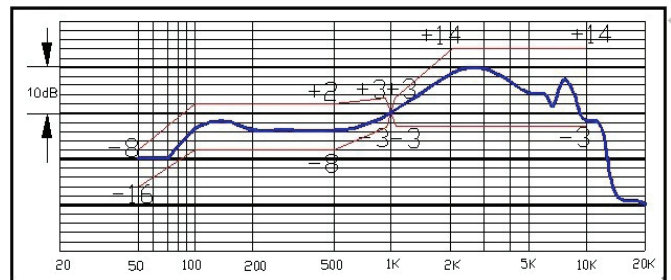- Remote switching contact

HN-PTT

PARAMETER	VALUE
Type	Dynamic
Net Weight	30g
Impedance	500Ω±30% at 1KHz
Pattern	Hyper cardioid
Sensitivity	-59dB
Frequency Response	50Hz~15KHz See response curve

Response Curve

Test Range

ORDERING INFORMATION

DESCRIPTION	MODEL#
Master Control Unit	RK-MCU
Push-to-talk Microphone	HN-PTT

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