

HCU-2000

INTEVIO

CONTROLLER

- Complies to international standards
- Plug-and-play for easy commissioning
- Intuitive set-up with step-by-step guided interaction with the LCD front panel
- Fully configurable keys to achieve any task at the press of a button
- Modular architecture : Expandable upto 128 speaker lines
- Dual channel audio capability
- Flexible amplifier backup modes to ensure low cost of ownership and high reliability
- Digital volume control on all inputs/outputs
- Comprehensive fault detection and indication
- Integrated voice alarm and public address system controller with built-in 500W amplifier
- Numerous user friendly design to increase operation efficiency: plug and play, record and play, interaction between LCD and buttons, etc
- Save total ownership cost by implanting recorder, timer, audio monitor and onefor-all backup amplifier solution



ABOUT THE INTEVIO PUBLIC ADDRESS AND VOICE ALARM RANGE

Honeywell's INTEVIO Public Address and Voice Alarm system is the ideal solution for single buildings. It is an integrated solution that can provide better stability, costsavings, and higher user experience and performance:

DESCRIPTION

HCU-2000 controller is the core unit of INTEV IO VA/ PA system which performs the audio storage, signal processing, routing, control and supervision functions for the whole system. With the built-in 500W Class-D amplifier, the single controller can work as an 8-zone VA/PA system. When more power and speaker zones are needed, it can be expanded by using external power amplifier HAM-2000 and zone expander HEX-8/HEX-24.

FUNCTIONS

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

Intuitive interaction design between buttons and screen

After pressing a button on the front panel, clear instructions will pop up on the LCD screen to guide the user what to do next. This increases the operational efficiency

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, speaker circuits and the dry contacts. The fault details will be displayed on the LCD screen and fault logs will be stored in the internal memory

Allow all calls even when the CPU malfunctions

If the CPU of the HCU-2000 fails the INTEVIO system will still allow the user to make paging announcements (All Call) using the PTT Microphone or the call stations in case of emergencies.

Scheduled broadcast with built-in timer

HCU-2000 has a built-in timer and supports configurable scheduled broadcast without extra timing device.

Record and play

HCU-2000 allows Users to record the temporary messages into its built-in 1GB memory with the PTT microphone or the call station and broadcast it without configuration. It's a function for operation efficiency improvement, especially for the application such as shopping mall/supermarket where the promotion message needs to be frequently updated.

Cost saving amplifier backup solution

IHCU-2000 has 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.

Technical Specification

Main power supply voltage	AC 220-240V, 50/60Hz
Backup power supply voltage	AC 220-240V, 50/60Hz
Main power supply fuse	T10AH 250V
Rated power	750 W

MICROPHONE INPUT

Input sensitivity	-65±3dBV
Input impedance	250Ω
Frequency response	90 Hz -13KHz
SNR	>50dB (with A-Weight)

AUXILIARY INPUT

Channels	2
Input sensitivity	1V (0dBV)
Input impedance	10 KΩ
Frequency response	85Hz-18KHz
SNR	>77dB (with A-Weight)

MIC/LINE INPUT

Input sensitivity	-50dBV/0dBV, selectable
Input impedance	10 KΩ
Frequency response	85Hz-18KHz
SNR	>77dB (with A-Weight)
Phantom power	DC 24V, switchable

CALL STATION INTERFACE

Input signal	2V
Input impedance	20 KΩ
Output signal	2V
Output impedance	20 KΩ
Frequency response	85Hz-18KHz

AUDIO OUTPUT

Output channels	Channel 1, channel 2 and recording output
Output signal	1V (0dBV)
THD	2V

AMPLIFIER CONTROL INTERFACE

Channels	3 (channel 1, channel 2 and backup amplifier)
Output signal	1.4V
THD	<0.5%
Control signal	Self-test signal, amplifier fault signal and power saving control signal

LOUDSPEAKER CIRCUITS

Output channels	8 (with group A and group B)
Maximum loudspeaker load	500W

CONTACT INPUT /OUTPUT

Contact inputs	10 (monitored)
Contact outputs	8 (NO, NC & COM), "fault" output, "emergency" output
Max . working voltage for outputs	AC 250V/DC 30V
Max . working current for outputs	2.5A

OTHERS

DC power output	24V/1A
Monitoring loudspeaker	2W/8Ω
Ethernet port	10M/100M
Memory capacity	1GB

OPERATING CONDITIONS

Humidity	< 95%, without condensation
Operating temperature	-10°C~+50°C (14°F~+122°F)
Storage temperature	-40Â°C~+70Â°C (-40Â°F~+158Â°F)

WEIGHTS AND DIMENSIONS

Product dimension (W×H×D)	482 mm×133.5 mm ×420 mm
Packagedimension (W×H×D)	580 mm×279 mm ×552 mm
Net weight	14.3Kg

Certifications and Approvals		
Category	Region	Certification
Safety	Europe	CE Certified
Safety	Global	CB Certified

Ordering Information	
Description	Ordering Information
CONTROLLER	HCU-2000

For more information,
www.partnerconnect.honeywell.com
 Call: 1-800-103-0339
 Email: HoneywellSecurity&Fire@honeywell.com

Honeywell HBT India Buildings
 Unitech Trade Center, 5th Floor, Sector-43,
 Block C, Sushant Lok Phase - I,
 Gurgaon - 122 002

www.honeywell.com

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