

Zone Expander

RK-ZONE24

General

The Honeywell INTEVIO Public Address (PA) system is the ideal solution for single buildings. Its integrated design provides better stability and cost savings, along with an enhanced user experience for improved performance.

Description

The RK-ZONE24 is a zone expansion device controlled by the Master Correct Unit, which adds 24 speaker zones and 24 contact inputs to the INTEVIO system. The RK-ZONE24 can connect with up to 6 external power amplifiers and 1 backup amplifier. The RK-ZONE24 supports only single channel mode.

Functions

Input/output

There are 24 dry contact inputs and a single line input is provided to connect with an external audio source. The RK-ZONE24 has 24 zones of 70V speaker outputs, which can connect up to 24 speaker circuits. An individual 24 VDC output is provided to power an external device.

Automatic fault diagnosis

The RK-ZONE24 has an automatic fault diagnosis function to supervise various types of faults, such as main power, backup power, CPU, power amplifier, speaker circuits, communication line, etc. Fault information is displayed on the LED indicators located on the front panel.



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Device operation (All Calls) even if the MCU is unavailable

The external audio source connected to the line input can still be broadcast to all local zones if the controller CPU malfunctions or is unavailable. This feature can reduce system downtime due to CPU failure, and allow safety alert broadcasting during an emergency.

FEATURES AND BENEFITS

- Expands up to 24 zones for the INTEVIO system.
- Flexible amplifier backup mode: 1 backup amplifier can be used to back up all amplifiers on the system.
- 500 W output capacity for each zone.
- Supports one-for-all amplifier backup.
- Automatic fault diagnosis.
- Can be used in standalone mode or if the controller CPU fails.
- Supports up to 24 speaker zones.
- Single line input and 24 contact inputs.
- 24 dry contact inputs without supervision.
- Independent volume control for each audio channel.
- Single channel operation.
- Automatic fault detection: main power, backup power, CPU, amplifier, speaker line, speaker line grounding, dry contact inputs, and network.
- Connects up to 6 main amplifiers, and 1 spare amplifier.
- Standalone operation (for PA announcements if the master control unit is unavailable) or in network mode along with the RK-MCU.
- Connect up to 5 RK-ZONE24 devices.

RK-ZONE24 Technical Specifications

PARAMETERS	VALUES
POWER SUPPLY VOLTAGE	AC 100-240V 50/60 Hz
FUSE	T2AL 250V
POWER CONSUMPTION	40 W
LINE INPUT	
INPUT SIGNAL	1V (0 dBV)
INPUT IMPEDANCE	10 KΩ
FREQUENCY RESPONSE	80 Hz-18 kHz, ±3 dBV
SNR	>80 dB (A-weighted)
POWER AMPLIFIER CONTROL INTERFACE	
CHANNEL NO.	2 (CH1 and spare amplifier)
OUTPUT SIGNAL	1.4V
THD	<0.1%
CONTROL SIGNAL	Self-testing, amplifier fault, and power saving control signal
LOUDSPEAKER CIRCUIT	
OUTPUT CHANNEL NO.	24
MAXIMUM LOUDSPEAKER LOAD	500 W

PARAMETERS	VALUES
CONTACT INTERFACE	
CONTACT INPUT	24 contact input interfaces without supervision
OPERATING CONDITIONS	
RELATIVITY HUMIDITY	< 95% without condensing
OPERATING TEMPERATURE	-10°C ~ +55°C (14°F to +131°F)
STORAGE TEMPERATURE	-40°C ~+70°C (-40°F to +158°F)
WEIGHTS AND DIMENSIONS	
PRODUCT DIMENSION (W*H*D)	482 mm x 88 mm x 407 mm (18.98 in. x 3.46 in. x 16.02 in.)
PACKAGE DIMENSION (W*H*D)	580 mm x 235 mm x 552 mm (22.83 in. x 9.25 in. x 21.73 in.)
NET WEIGHT	16.98 lbs.
GROSS WEIGHT	22.93 lbs.

Note: Honeywell reserves the right, without notification, to make changes in product design and/or specifications.

WARRANTY

2 Years

CERTIFICATIONS AND APPROVALS

CATEGORY	REGION	CERTIFICATION
SAFETY	Europe	CE Certified
SAFETY	Global	CB Certified
SAFETY	North America	UL60065 Certified
EMC	North America	FCC Part 15 Subpart B Certified

ORDERING

DESCRIPTION	MODEL#
24-ZONE EXPANDER	RK-ZONE24

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