

Integrated Communication System for Railway Station

Integrated Communication System

Overview

Integrated Communication System(wired·wireless) is installed and operated at railway station for passenger guidance and information announce. This system interworks with Fire broadcast system, Remote command broadcast system, train information broadcast system and BGM system. And it controls and monitors broadcast priority and broadcasting level. Through this system, Railway station staffs can connect information broadcast system and emergency interphone with portable radio set.

Features

● Radio Broadcast System

- Station boundary individual and total broadcast with portable radio set
- automatic connection with emergency interphone by detecting the sensing signal
- Voice level check and control through front LCD keypad
- Cross-talk and malfunction preventing mechanism through radio signal
- Broadcast priority set and channel extension
- Remote supervising program support through Ethernet and interworking dedicated area

● Railway Broadcast System

- Automatic sending fire alert, voice broadcasting and emergency manual broadcasting
- Broadcasting message transmit by preset priority
- Remote control audio input/output level and control the station main controller by digital method
- Green implementation of main amplifier reducing 50% power consumption compared with analog method
- Remote power control function through TCP/IP
- Automatic switch-over between normal power and UPS power



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Specifications

Radio Broadcast System

- **Radio Broadcast Interface Unit**
 - Voice and Control signal I/O over 8-Ch each
 - Radio set interface function
- **Program Selector (Control the Priority)**
 - I/O over 8-Ch each
 - Individual and Group Priority Control
- **Emergency Inter-phrase Interface Terminal**
 - Channel : over 20Ch(expandable)
 - Interface : 2-line/4-line Connection
 - TOT function, VOX detection function
- **Antenna Channel Divider**
 - 4IN/8OUT, 1IN/OUT(Transceiver dedicated port)
 - Splitter/Distributor function
- **Power Divider**
 - Input Voltage AC220V, DC24V Battery
 - Output Voltage AC 220V 2Ch, DC 24V 11Ch
- **DC Power Supplier**
 - Input : AC22V/DC24V, Output : DC13.8V 8Ch
- **Radio Transceiver, Portable Wireless set**
 - VHF/UHF band, Output 4.8W below, 16Ch over

Railway Broadcast System

- **Front-end amplifier**
 - Input Channel : over 8 port
 - Voice Quality Control function in each channel
- **Fire Alarm Unit**
 - P-type Control Channel : over 10Ch
 - R-type Control Channel : RS-422 or RS-485 method
- **Command Broadcast Interface**
 - TCP/IP Control and Audio Broadcast by digital
- **Priority Controller**
 - Main Controller and Remote Manager control through Electrical Volume Control method
 - Control Method : Processor Control(with Software)
- **Main Controller**
 - Monitoring the Output Signal of Speaker through converted digital signal
 - Data Communication Channel : 4Ch
- **Digital Main Amplifier**
 - Output : 70Watts(Max. 100W), Parallel Operation
 - Reducing Power Consumption : 50%
(compared with analog method)

Applications

