V. Technical Parameters

Functional module	Parameter	Technical indicator
FM receiving unit	Receiving frequency	76-108MHz
	Frequency response	40Hz – 15kHz
	Signal to noise ratio	≥62dB
	Receiving sensitivity	12dBuV
	Data demodulation	57kHz, RDS encoding
Line output	Output interface	2-channel RCA lotus-type
	Output level	1Vrms
	Output impedance	≤100Ω
Power and communication	Rated power	25W/8Ω
	Frequency response	40H z -15kH z
	Signal to noise ratio	≥65dB
	Degree of distortion	≤0.2%
	Mode of communication	RS232/9600bps
Power supply	Standby power consumption	≤0.85W
	Full-load power consumption	≤40W
	Voltage and frequency	AC180-240V/50H z

VI. List of Packing

No.	List	Quantities
1	Addressable receiving terminal host	1 set
2	Waterproof telescopic receiving antenna	1 pc
3	Fuse	1 set
4	Operation instruction	1 copy
5	Certificate	1 copy
6	Warranty	1 copy

Wireless Public Address System

Addressable Receiving Terminal   WEP253
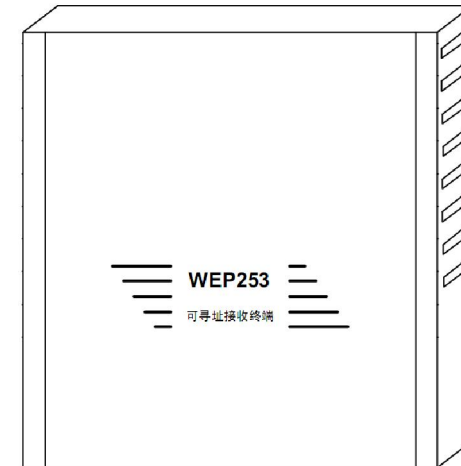
WEP253
可寻址接收终端

Operation Instruction

Welcome to use our wireless public address system products. Please read the operation instruction carefully prior to use.

LY International Electronics Co., Ltd.

I. Description of Product

WEP253 is an addressable receiving terminal developed specially for radio broadcasting system and a broadcasting equipment integrating FM receiving, audio demodulation, signal amplification, and audio output and supporting two output modes including the wireless output and wired output. Taking the digital audio processing technology as the core, this equipment is able to output the high definition audio signal. With RDS sub-carrier decoding and high-reliability signal encryption technology, it is possible to prevent the illegal insertion of broadcasting; the built-in gas discharge tube is used to protect the equipment from lightning in order to guarantee the safety in the broadcasting system effectively.

This equipment is applicable to the urban and rural emergency broadcasting system; the indoor or outdoor acoustic amplification in the campus, factory, park, square, and playground. Together with the wireless transmitter, multi-function control host, and high-definition horn loudspeaker or the column loudspeaker manufactured by our company, this equipment will constitute the complete broadcasting system.

II. Functional Features:

◆ All-weather outdoor waterproof design, compact and artistic appearance;
◆ Wireless/wired addressable receiving, RDS sub-carrier decoding, high-reliability encryption method, to guarantee the safety in broadcasting;
◆ Built-in gas discharge tube absorbing high-voltage strong current, to protect the equipment from attack of lightning, and reach high level of reliability;
◆ Digital receiving unit, high tone quality output;
◆ Supporting the remote timing power-on and digital volume control by the host at a higher level, solving the problem in the failure of the mechanical potentiometer after the service for a long term;
◆ LY special control protocol, receiving with ultrahigh sensitivity, and demodulating control signal accurately even with weak signal;
◆ The customer may tailor the receiving at fixed frequency or the receiving by tracking the transmitter frequency automatically due to the ultrahigh adaptability;
◆ Built-in 25W high-definition power amplifier circuit, with complete protection functions;
◆ With two channels of line signal output interfaces, facilitating the expansion of large-power amplifier;
◆ Working status indicator lamp, facilitating determination of equipment fault;
◆ Reserved communication port, facilitating parameter setting, upgrading and maintenance;
◆ Two-way power supply to communication port, supporting power supply to external series equipment and power supply of external equipment to inside;
◆ Setting parameters with PC software, control host, or special hand-held equipment, in addition to remote wireless or wired setting;
◆ Supporting the power supply with various energies such as solar energy, wind energy, ordinary mains supply, and line supply (According to the customer's project);
◆ No-signal automatic standby and line output port mute function, operating with low power consumption, saving electric power, and prolonging service life of equipment.

III. Description of Interfaces
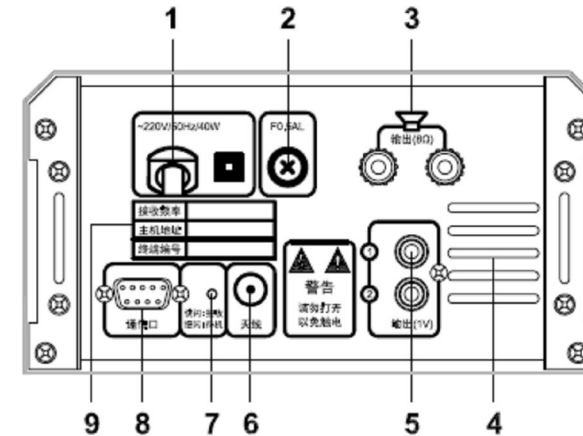
1. AC220V power input line;
2. AC220V power fuse holder;
   If the fuse is blown, please replace with the fuse in the same specification; the continuous blowing of the fuse indicates the fault inside the machine. Please replace the fuse after the troubleshooting.
3. Power amplifier output interface: Connecting 8Ω constant impedance loudspeaker.
4. Cooling and ventilation window: The ventilation window shall be blocked in no case.
5. Audio line output interface: Connecting and expanding external power amplifier.
6. Antenna interface: Connecting the telescopic antenna in case of wireless receiving; connecting coaxial cable in case of wired receiving.
7. Working status indicator: The normally-on indicator indicates the status under the control of the host at a higher level; the flashing indicator indicates the status of standby.
8. Communication interface: Connecting addressable control host, computer, or special hand-held equipment to achieve the setting of the parameters. (When connecting the multi-function control host, the crossover serial port line is used; when connecting the computer, the straight-through serial port line is used.)

IV. Description of Installation

This terminal is installed on the outdoor telegraph pole by means of binding, or mounted on the outdoor or indoor walls with expansion screws (Spacing between two screws is 140mm).

Prior to the installation of the equipment, the consideration shall be given to the setting of the parameter. Please connect to the computer or multi-function control host with correct serial port line for setting (Please refer to the instructions to the relevant product for the setting in details).