J&R TECHNOLOGY

Explosion proof Telephone

- SMC glass fiber reinforced plastic forged enclosure
- Protection level IP66 according to IEC60529
- Supports 3 groups of speed dialing
- Advanced noise reduction technology for HD calls
- It is ATEX, IECEx, EAC and INMETRO standards

MAIN FEATURES

The explosion proof telephone are designed to provide safe, reliable communication in hazardous areas. The telephones sets were developed for operation in the petrochemical industrial, usually used in production, transportation and refining of oil, natural gas, mining and etc. The housing is made of impact and shock-resistant GRP and even resistant to acids, alkali and lubricants. Its robust design represents a perfect "packaging" for the latest requirements for VoIP telephones combined with proven reliability for critical mission communications and high safety applications.

It is designed to provide ultimate user comfort on the basis of industrial standards and decades of market leading expertise and know-how. The telephone device features a display with integrated heating for ultra low temperature environments.

This mark indicates compliance with the

Ex eb ib [ib Gb] mb IIC T6/T5 Gb

Ex ib [ib Db] tb IIIC T80°C**/T95**°C **Db**

T6/T80°C**: -40**°C **to +40**°C

T5/T95°C**: -40**°C **to +55**°C
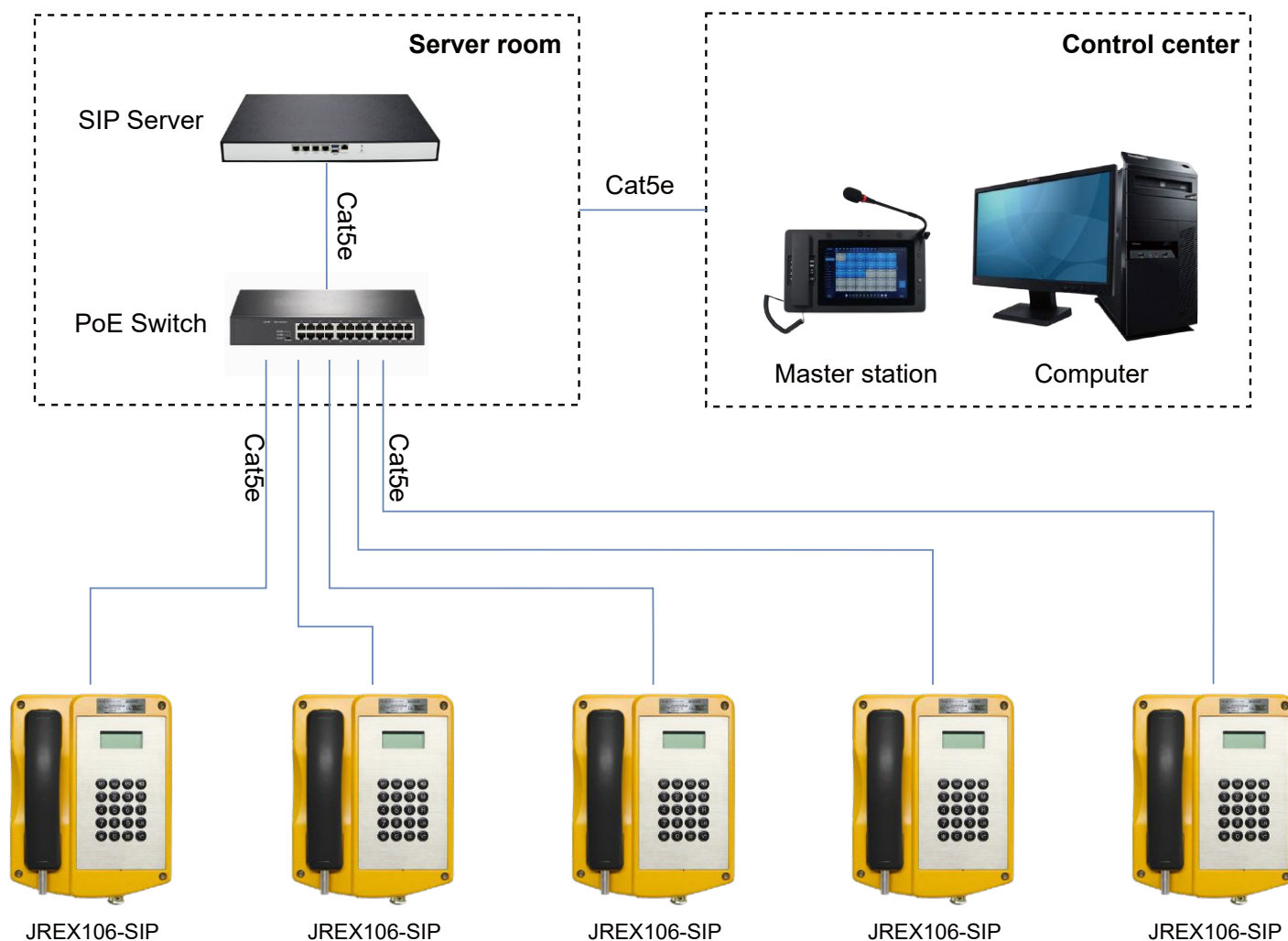
Zone 1,2, 22

- Audio modes–handset and hands-free speaker phone
- Autodial, memory, mute and menu configuration keys
- Programmable with alphanumeric display and a 20-piece stainless steel keypad
- Stainless steel panel, Back-lit LCD display 128 x 64 pixels–4 line x15 character
- Handset with noise-cancelling microphone and 80 cm armored cord
- The handset supports hearing aid compatibility (HAC)
- Removable handset retainer latches on cradle
- Cradle Switch Life, >1 000 000 times
- Colour optional black, orange, yellow
- Supports wall mounting with mounting bar

TECHNICAL SPECIFICATIONS

SIP Specifications	
Power supply	PoE powered or 12V DC powered
Power adapter	100~240VAC 50~60Hz / 12V DC
Power consumption	Idle 1.5W / Working 1.8W
SIP protocol	SIP 2.0 (RFC3261)
Network port parameters	WAN Port: 10/100Base- T RJ-45 for LAN, Auto MDIX，LAN Port: 10/100Base- T RJ-45 for PC, Auto MDIX
Voice coders	G.711 A/U, G.722 8000/16000, G.723, G.729
Communication mode	Full duplex
Ringing volume	90~95 dB (A) @ 1 meter

Technical Specifications
"M1 M2 M3" is used to set the speed dial key
" 🔊 " toggle audio hands-free mode
"LR" button for last number redial
"R" for flash recall
"M" for muting
"V±" for volume adjustment
Compatible with most SIP-based IP-PBX servers that comply with SIP RFC 3261
Supports automatic dialing with delay after picking up the phone, and 4 groups of sequential calling
Supports automatic switching between primary and backup servers
Supports remote Telnet debugging
Supports MIC mute function
Supports call transfer
Support switching between hands-free and handset modes
PoE 802.3af enabled (Power-over-Ethernet) or alternate power source
PoE power supply, supports connecting the external loudspeakers (No external power supply needed)
Wiring access, 2xM20 cable gland entry points
Operating temperature -40°C to 65°C / Storage temperature -40°C to 75°C
M.T.B.F. exceeds 50,000 hours under normal operating conditions

Network Web Management
Fully configurable through any internet browser
Static IP address provisioning or DHCP support
Product self-diagnostic testing available through the web interface
Network-adjustable earpiece volume and microphone sensitivity
Firmware upload via web interface
Echo cancellation: Supports G.168, and hands-free can support 96ms
Supports SIP domain, SIP authentication (none, basic, MD5), and DNS name of server
DTMF: SIPINFO, INBAND, RFC2833
Dials Plan: Flexible dial-up configuration, support hotline

Network Features
Supports static IP address
Supports DHCP to obtain an IP adress on WAN port
Supports VLAN
Supports web config
Data Protocols: IPv4, TCP, UDP, ICMP, ARP, DNS and DNS SRV for SIP Signaling

APPLICATION

IP telephony system is an efficient and convenient communication solution that uses Internet connection to implement voice calls and other communication services. Compared with traditional telephone system, IP telephone system has higher efficiency and convenience.

Server room

SIP Server

Cat5e

Cat5e

PoE Switch

Cat5e

Cat5e

Control center

Cat5e

Master station

Computer

JREX106-SIP

JREX106-SIP

JREX106-SIP

JREX106-SIP

JREX106-SIP

OPTIONAL ACCESSORIES

JR-EB-01

Explosion Proof Beacon

JREX-HSA-A

Explosion Proof Horn

JR-EJB-01

Explosion Proof Junction Box

JR-TH-01

Acoustic hood

APPLICATION SCENARIOS

Chemical industry

Offshore drilling platform

Oil field
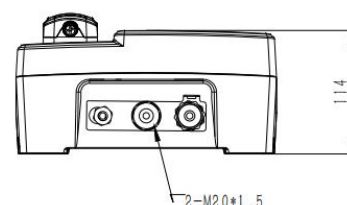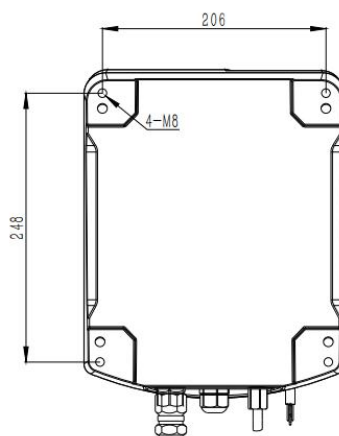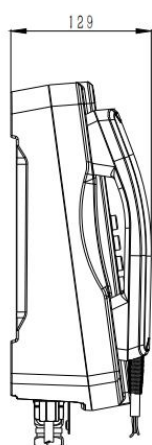

Nuclear power plant
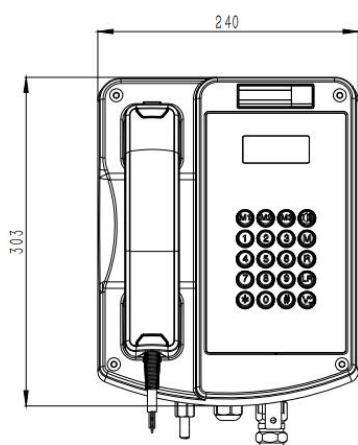

Oil refinery

Mining industry

Heavy industry

Metallurgy

DIMENSIONS

Package	
Unit size	303*240*129 (mm)
Shipping dimensions	405*280*170 (mm)
Packaging materials	Foam padding, carton
Weight	Gross weight: 9 kg / Net weight: 8 kg