

Explosion-proof Telephone with Beacon and Horn Specification

The Explosion Proof Telephone is designed for voice communication in the hostile environment where reliability, efficiency and safety are of prime importance. The telephone can handle the large temperature differences found outdoors, high humidity, exposure to sea water and dust, Corrosive atmosphere, Explosive gases & particles, as well as mechanical wear and tear, making it perfect for use as an emergency telephone. The unique robust handset is manufactured from moulded Bulk Molding Compound and designed specifically to withstand arduous use in all environments, armoured cord to provide additional resistance to vandalism or heavy industrial use.

This Explosion proof broadcasting telephone is widely used in oil exploration, oil&gas plants, military, chemical and petrochemical plants, refineries, mines, oil refining, offshore and land based rigs, power generation facilities, wastewater treatment facilities, grain storage sites and other hazardous industrial environments.

General Description

- Standard Analogue or VoIP/SIP Explosion-proof & Weatherproof Telephone
- Fully encapsulated electronics in robust glass fiber-reinforced polymer housing with 1/2" NPT conduit entries-IP66 compliant
- Programmable with alphanumeric display and a 20-piece stainless steel keypad
- Remote programming—allows you to manage your network from a central location
- Back-lit LCD display—2 line x15character: English
- Audio modes—handset and hands-free speaker phone
- Corrosion resistant hardware
- Noise canceling microphone
- Hermetically sealed non-contact hook sensing switch improves system reliability
- Captive cover screws prevent loss during installation
- Service temperature range from -45° to +70°C
- Removable handset retainer latches on cradle
- Large urethane coated watertight keypad
- Autodial, memory, mute and menu configuration keys
- Programmable auto hang-up timer
- Hearing-aid compatible (HAC) receiver
- Available with Heavy duty curly handset cord or vandal resistant armored handset cord as an option
- Two M20 gland entries
- Models with or without display
- Housing colours yellow, orange, black, red
- Field repairable by authorized personnel
- External power supply for beacon and horn

Technical Data

Analogue Version	
Power Supply	Telephone line powered for telephone; External power supply for beacon and horn
Supply Voltage	24 VDC to 65 VDC
Supply Current	20 mA DC to 100 mA DC
Ringer Volume	- 80dB(A) at a distance of 1 m - 110dB(A) at a distance of 1 m (for external horn speaker)
Dialing Method	DTMF mode in accordance with ITU-T recommendation Q.23.
SIP Version	
Power Supply	PoE for telephone; External power supply for beacon and horn
Power Consumption	-Idle:1.5W -Active:1.8W
SIP Protocol	SIP 2.0 (RFC3261)
Support Codec	G.711 A/U, G.722 8000/16000, G.723, G.729

Communication Type	Full duplex
Ringer volume	- 90~95dB(A) at a distance of 1 m - 110dB(A) at a distance of 1 m (for external horn speaker)

Parts Description

Explosion-proof Telephone :



Explosion protection:

II 2G Ex e ib mb IIC T6 Gb

II 2D Ex ib [ib] tb IIIC T80 Db

Certificated for use in Hazardous areas of Gas Group IIB/IIA

Zone classification: Zone 1, Zone 2 and Zone 22

Ex 'd' protected

Intrinsically safe Ex" ib" certified

Temperature classification:T4

Lightning / Transients

Protection to ITU-T k.21 enhanced levels

Weather Resistance

IP66

Casing Material

Robust glass fiber-reinforced polymer housing

Color

Available in four colors:

yellow,orange,black,red

Keypad

a 20-piece stainless steel keypad

Handset

High Impact Thermoset Resin Compound,available with Heavy duty curly handset cord or vandal resistant armored handset cord as an option

Hook switch

Hermetically sealed non-contact hook sensing switch improves system reliability

Display

Back-lit LCD display-2 line x15character: English

Mounting

Wall/column/structural

Captive cover screws prevent loss during installation

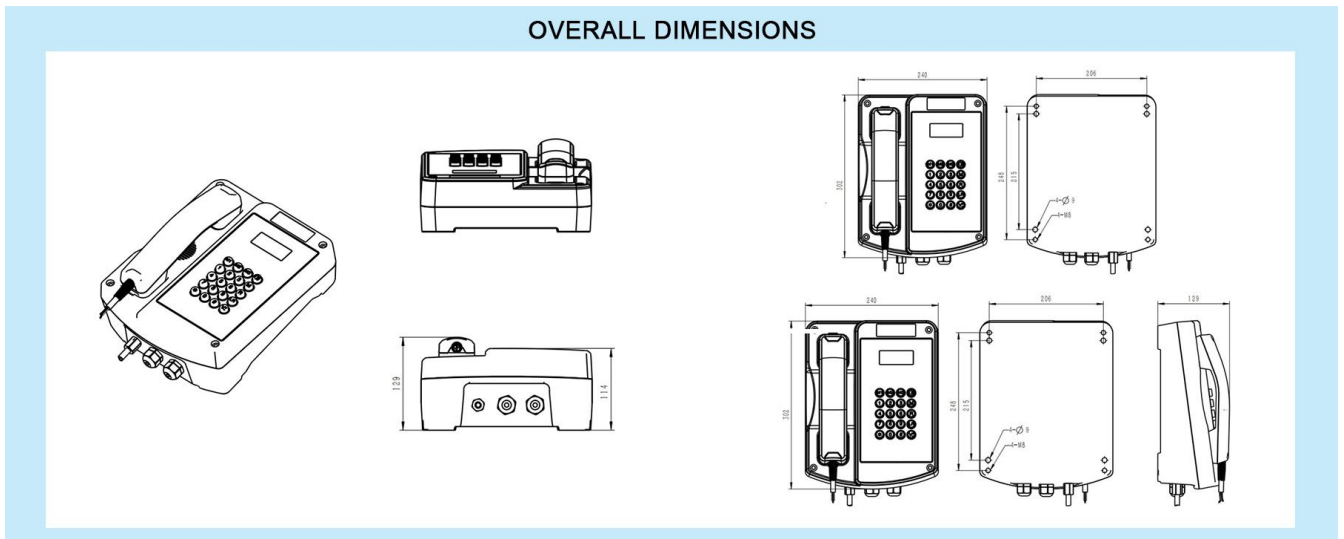
M.T.B.F.

Calculated to have an M.T.B.F. in excess of 50,000 hours using

Unit Size: 204*334*126mm (H*W*D)

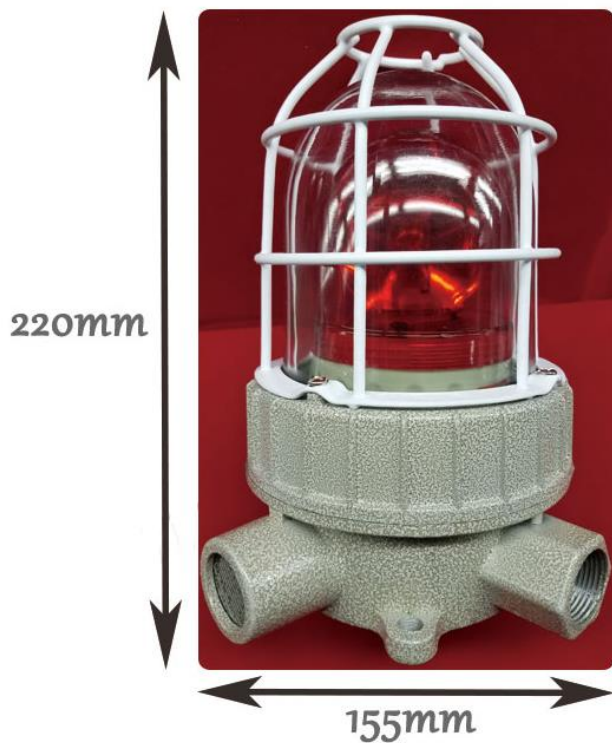
Net weight: 8KG; Gross weight: 8.8KG

Dimensions:



ENGINEERING SPECIFICATION

Explosion Proof Beacon JR-EB-01:



- Aluminium alloy Enclosure,high-pressure electrostatic powder coated after shot blasted.
- Compact structure and nice appearance.
- High impact resistance tempered glass cover.
- High brightness red LED, long lifetime and high brightness.
- Galvanized and plastic coated protection mask, durable and good anti-corrosive.
- Can be used as warning light without buzzer.
- Stainless steel Exposed fasteners

- Steel conduit or cable wiring.
- Suitable for explosive gas environment Zone 1 and Zone 2.
- Suitable for IIA,IIB,IIC explosive gas environment.
- Suitable for Hazardous dust area: Zone 20, Zone 21, Zone 22.
- Can be used in the environment of temperature group for T1~T4.
- Meet a criterion: G3B3836.1, GB3836.2, GB3836.3, GB12476.1, IEC60079
- Ex-proof Mark: Exd II BT4 Gb, DIP A21 TA, T4.
- Rated voltage: AC220V/110V/36V, DC12V/24V/36V
- Lighting Source: 5W Rotary warning light (ordinary) or LED.
- Protection grade: IP65
- Corrosion-proof grade: WF1
- Inlet Thread: G3/4"
- Cable outer dia:10mm~14mm
- Guide number: 150/min
- Sound intensity: ≥80dB
- Gross Weight: 1.5 KG

Explosion Proof Horn JR-EH-01:



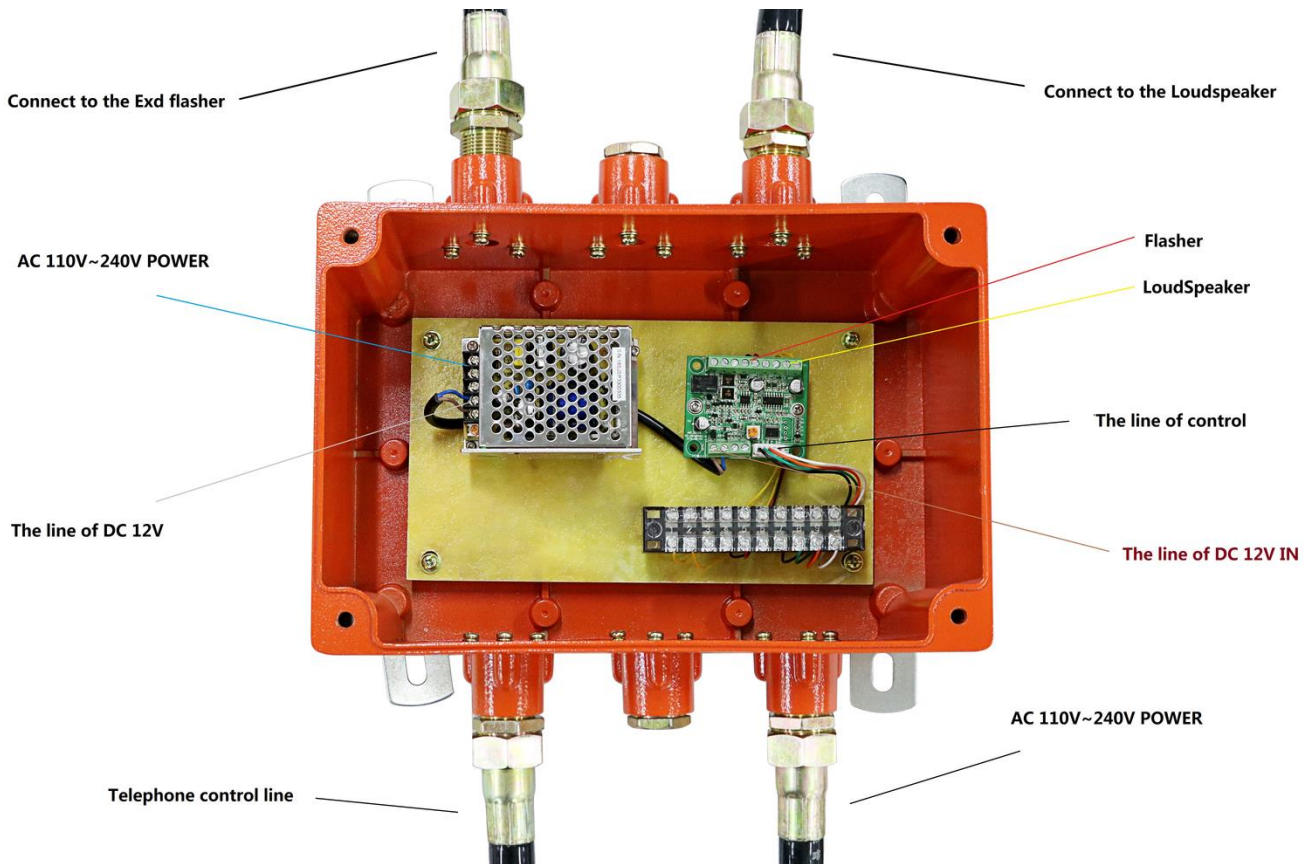
- Aluminum casting body
- Fire-proof spool material is stainless steel preparation of net
- Cable entry is sealing ring structure
- The sealing is made of the rubber materials with an international hardness of 50 to 60. And the aging test is according to the rules of GB3836.1 Appendix D3.3 for testing. After tested, the hardness shall not exceed 20% compared with the hardness before tested.
- This explosion-proof horn meets the GB3836.1-2000, GB3836.2-2000 current national standards.
- Explosion-proof mark ExdIICT6:IP65
- Ex type is flame-proof type
- Output power
 - Output power 25W (load 8Ω)
 - Output power 25W (110V audio signal)
- Output sound pressure level (SPL)
 - Output frequency range: 300 ~ 4000Hz
 - Intensity of output sound pressure: 110 dBA @ 1 metre typical
- Size:L220*W200*H200 (mm)
- Gross Weight: 1.5 KG

Explosion Proof Connection Box JR-EJB-01:



- Aluminum casting body
- Ex-proof Mark: ExelIBT6
- Waterproof protection:IP65
- Corrosion-proof grade: WF1
- Suitable for IIA IIB IIC Anti-explosion Gas Environment
- Dimension 200*200*130(mm)
- Connection Drawing:

Wires Connection





Service

The explosion proof and weatherproof telephone is manufactured by **J&R** and subject to stringent quality controls. If you have questions regarding the telephone or if a malfunction has occurred – even after the guarantee period – please contact **J&R** or the **distributor** in your area. Please have the type and series number ready (these numbers can be found on the telephone side or on the PCB) when you contact us.

Maintenance And Servicing

The telephone is maintenance-free. Nevertheless, if the telephone is deployed in areas with significant impurities due to dust, grease, oil etc., then it should be cleaned from time to time. The handset and the telephone should be wiped with a damp cleaning cloth. **Caution!** Never use sharp objects for cleaning.

The device may be completely recycled as electronic waste. Upon disassembling the device, the plastic, metal and electronic components must be disposed of separately. In every single case the national requirements and regulations for waste disposal must be observed. The waste-disposal requirements of your country must be observed.

Warranty Periods

Every claim by Buyer alleging a defect in the goods and/or services provided hereunder shall be deemed waived unless such claim is made in writing within the applicable warranty periods as set forth above. Provided, however, that if the defect complained of is latent and not discoverable within

the above warranty periods, every claim arising on account of such latent defect shall be deemed waived unless it is made in writing within a reasonable time after such latent defect is or should have been discovered by Buyer.

Limitations / Exclusions

The warranties herein shall not apply to, and J&R shall not be responsible for, any damage to the goods or failure of the services supplied hereunder, to the extent caused by Buyer' s neglect, failure to follow operational and maintenance procedures provided with the equipment, or the use of technicians not specifically authorized by J&R to maintain or service the equipment. THE WARRANTIES AND REMEDIES CONTAINED HEREIN ARE IN LIEU OF AND EXCLUDE ALL OTHER WARRANTIES AND REMEDIES, WHETHER EXPRESS OR IMPLIED BY OPERATION OF LAW OR OTHERWISE, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Return Policy

If the equipment requires service, contact your Regional Service Center for a return authorization number (RA#). Equipment should be shipped prepaid to J&R with a return authorization number and a purchase order number. If the equipment is under warranty, repairs or a replacement will be made in accordance with the warranty policy set forth above. Please include a written explanation of all defects to assist our technicians in their troubleshooting efforts.



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