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FORBIX SEMICON, Co. Factory,
#134, D.R.D.O. Phase-2 Main Road
C. V. Raman Nagar, Bangalore,
India – 560093

Website: www.forbixindia.com

Email: sales@forbixindia.com

Ph: +91 9742159846,
9845100274,
9739711813,
080 6452 1122 (L)

USER MANUAL

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Wireless Panic Alarm Transmitter



Designed and Manufactured in INDIA

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Precautions:

- Do not drop or apply jerk. Internal electronic circuits are fragile
- Do not open the enclosure or touch the internal electronic circuits with bare hands (electrostatic charge might damage the semiconductor components permanently)
- Do not connect adapters other than supplied by FORBIX SEMICON
- Keep in cool and dry place, away from moist climate and wet walls
- The enclosure is IP-65 but the antenna junction points are not water protected. If mounted outdoors, make sure to cover to avoid rain or thunderstorm

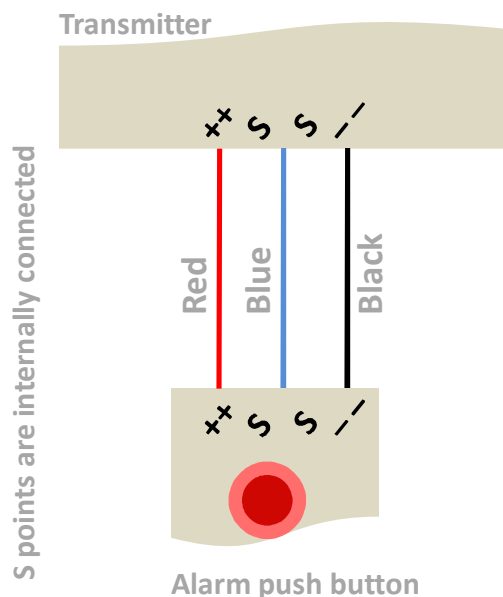
The set consists of

Wire less long range transmitter FBXTX01	1 no.
Panic alarm button FBXB01C	1 no.
Antenna	1 no.
Adapter power supply 110-220VAC to 12VDC	1no.

Following are the programmed parameters and vary from customer to customer:

- Operating data packet length and data format
- Internal data encryption logic
- FSK, GFSK, MSK, GMSK, OOK modulation techniques
- Operating frequency (380 – 480MHz). The transmitter hops multiple predefined frequencies for data transmission. Data packets are transmitted in all of the hopping frequencies. The receiver unit is aware of the predetermined hopping frequencies. It is thereby able to collect data from all these frequency channels and then formulate the complete packet
- Communication data rate 146/293/4688/9380 depending on range requirement
- Bandwidth (62.5 or 125KHz as per sensitivity settings)

Wiring diagram



Applications:

Long range wireless alarms and security systems
Industrial monitoring and control
Motor pump, gate motor, on/off logic

Range of communication of any RF wireless machine is primarily dependent on environmental conditions, viz. temperature, humidity, interference, cross talk and multipath fading. It achieve best range of communication, it is suggested to mount the machine at a height not less than 10-12 feet and open line of sight to the receiver. In such conditions the range of communication can reach upto 3.5Kms as well.

Sub-GHz antenna provided are of 2 types:

- Fixed cylindrical type
- Long wire extended type (with magnetic base)
- Receiver contactor relay maximum load capacity 5A @ 220VAC/50Hz or 110VAC/60Hz

Cont..

Open line of sight range is around 8-9 Kms (where the transmitter and receiver are visible to each other and there is no nearby obstruction)

- Make sure to keep the vicinity of the transmitter and antenna open for 100-200 meters
This ensures better range of communication
- If the unit is installed outdoors, make sure to provide appropriate housing to safeguard the unit from direct rain, thunderstorm or sunlight
- Make sure there is no water leakage through the antenna junction point

1st connect antenna and then the power supply

- At the time of boot up, Green (power) and Blue (sync) indicators glow. Red (signal) indicator does not glow (to avoid unnecessary noise at startup)

Cont..

- If both the transmitter and receiver is power ON, then a sync BLUE blinking on the transmitter should show blinking on the receiver as well. If the receiver is NOT showing the blink then it is out of range.
- Either pressing or releasing the alarm button will cause blinking on the transmitter.
- **Transmitter once started will continue to send signals for next 15-20 seconds. This can be seen by the blinking of the blue sync indicator**