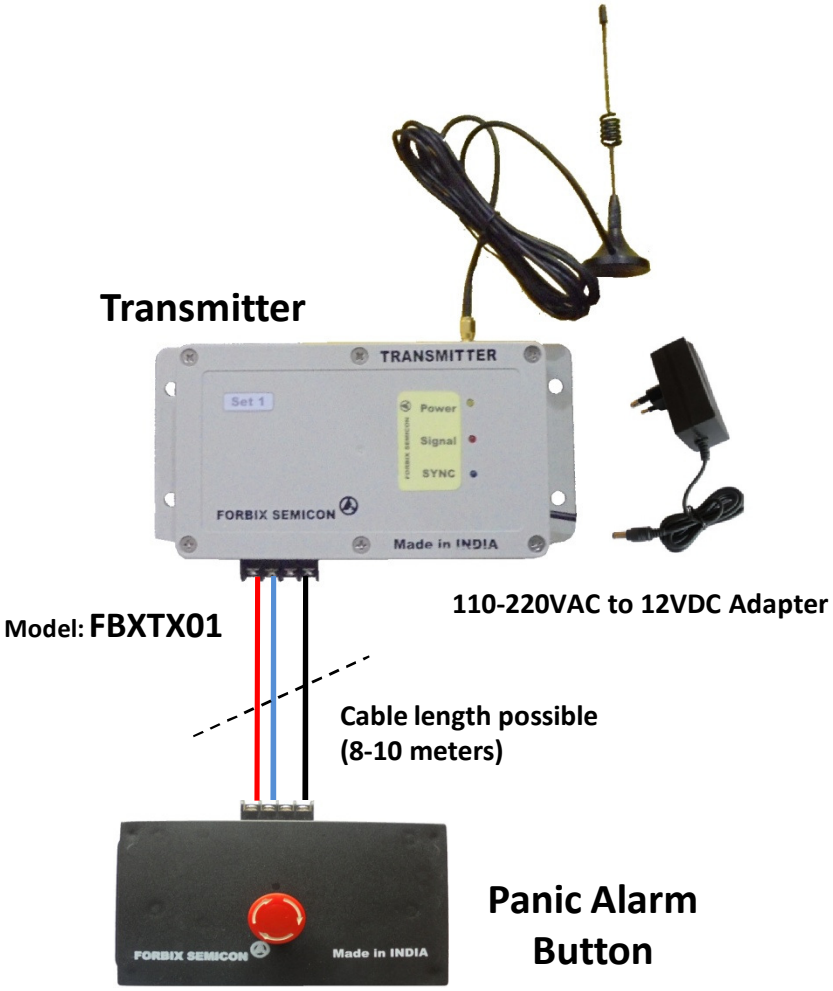
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Wireless Panic Alarm Transmitter



Parameters	Specifications
Model	Wireless long range transmitter with panic button **FBXTX01** + **FBXB01**
Enclosure type	IP 65 (color grey) for the transmitter ABS plastic (color black) for the push button alarm
Operating Voltage	12 VDC (110V-220VDC to 12VDC converter adapter)
Connection to alarm button	Red – Power supply = 5VDC Blue – Signal return from the alarm button Black – GND / return path
Indicators at the transmitter unit	Power supply – Yellow Signal – RED ON – Panic button is pushed OFF – Panic button is released SYNC – Synchronizing signal to the receiver
Dimensions	Transmitter enclosure: 250 x 90 x 45 mm Push button enclosure: 175 x 85 x 35 mm
How the transmitter operates	The transmitter sends panic button ON / OFF signaling status for 15 seconds continuously. Any change in the input status would be informed to the receiver. The receiver unit can be a pump controller, a siren, an alarm, or even a potential free contactor point for controlling any external load

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

Visit us at: www.forbixindia.com
Call: +91 80 6452 1122
Email: sales@forbixindia.com

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Technical details

+20dBm (100mW) constant RF output
+14dbm high efficiency PA for the transmitter
Receiver sensitivity: – 148 dbm
168 dbm is the maximum link budget

Operating voltage of the transmitter: 12VDC
Operating voltage of the receiver: 12VDC
Operating temperature: 25 ^{o}C
CRC on data payload: Enabled
Packet Error Rate: PER (1%)
Redundancy packet feature: Enabled
fOsc = 32MHz
Radio IC used CC1100 (from Texas Instruments) [Sub-GHz frequency]

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)

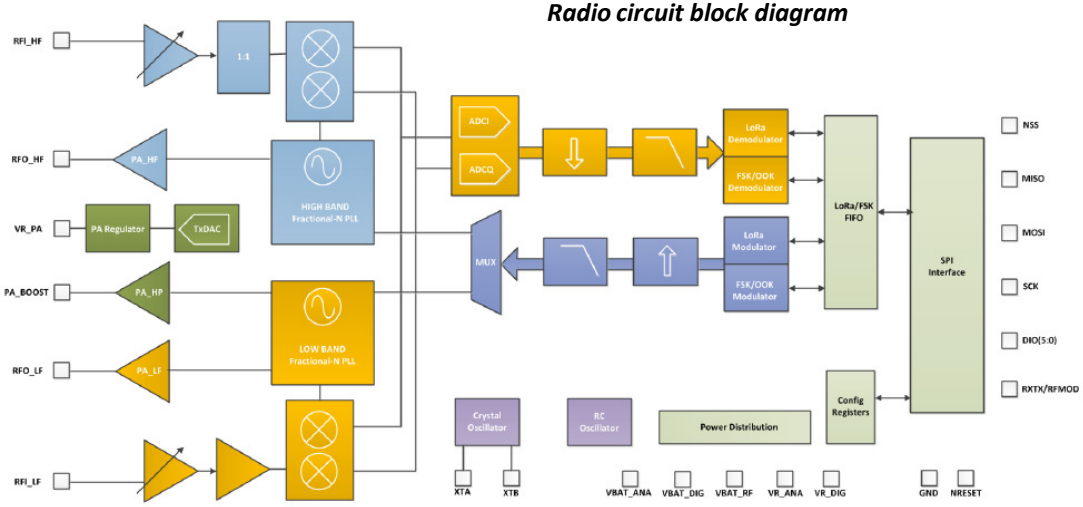
Applications:
Long range wireless alarms and security systems
Industrial monitoring and control
Motor pump, gate motor, on/off logic

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

Radio circuit block diagram



Wireless Transmitter

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