

ENGLISH

POCSAG Transceiver TX-200EN Series User Manual

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 50 centimeters between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The antennas used for this transmitter must be installed to provide a separation distance of at least 50 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.



Professional installation instruction

1. Installation personal

This product is designed for specific application and needs to be installed by a qualified personal who has RF and related rule knowledge. The general user shall not attempt to install or change the setting.

2. Installation location

The product shall be installed at a location where the radiating antenna can be kept 2m from nearby person in normal operation condition to meet regulatory RF exposure requirement.

3. Warning

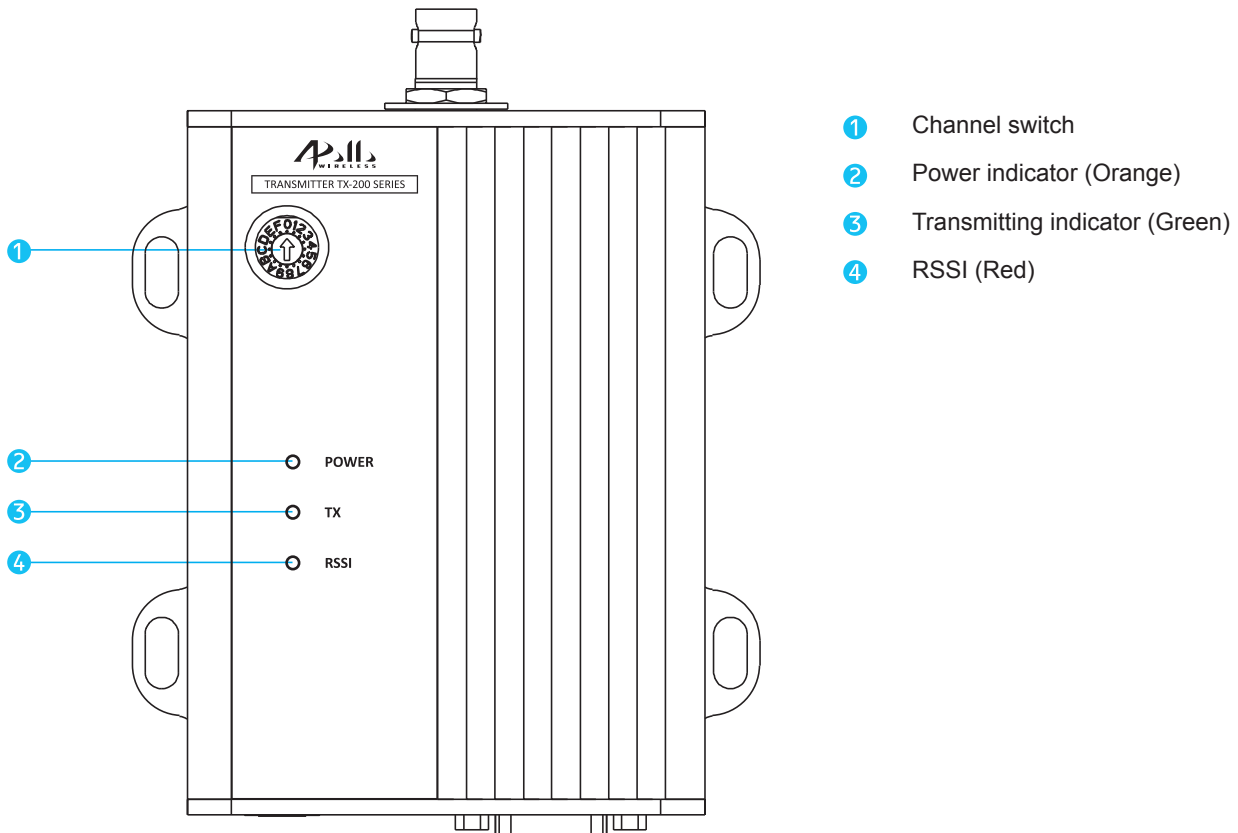
Please carefully select the installation position and make sure that the final output power does not exceed the limit set force in relevant rules. The violation of the rule could lead to serious federal penalty.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC ID: NDATA200EN

Overview



I/O port function description - Model: TX-200EN				
Pin No	Pin Name	I/O Type	Signal Type	Description
Pin 1	None	-	-	-
Pin 2	TXD	Ouput	RS232	RS232 control signal
Pin 3	RXD	Input	RS232	RS232 control signal
Pin 4	None	-	-	-
Pin 5	GND	GND	GND	Signal reference point
Pin 6	Carrier DET	Ouput	0-5V (TTL)	Carrier detection output
Pin 7	None	-	-	-
Pin 8	Flow control	Ouput	RS232	RS232 control signal
Pin 9	AUDIO OUT	Ouput	1Vp-p @ 10kΩ load	Receiver audio signal output

System Specifications - Transmitter

Frequency Range	UHF 450 ~ 470MHz
Output Power	10dBm ~ 37dBm (10mW – 5W)
Modulation Type	FM,2FSK
FSK,FM Deviation	+/- 2.5kHz, 4.5kHz, 5kHz
Frequency Tolerance	VHF: < 5ppm ,UHF: < 3ppm
Frequency Stability	VHF: < 5ppm ,UHF: < 3ppm
Harmonic	< -57dBc or -36dBm
Spurious	< -60dBc

System Specifications - Receiver

LO Frequency Temperature Stability	< 3ppm
Receiver Sensitive	< -118dBm @12dB SINAD
Image Rejection	>60dB
Spurious Rejection	>60dB
Adjacent Channel Rejection	12.5kHz Channel Spacing: >52dB ,25kHz Channel Spacing: >60dB
Intermodulation Response Rejection	+/-25kHz/50kHz : 60dB, +/-50kHz/100kHz : 60dB
2nd IF Frequency	455kHz
IF Bandwidth	15kHz