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GT – 150HPN for Wireless call

Wireless devices      Manual

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Getron System Inc.

## 1.1 Outline

As a transmitting device for wireless call, GT-150HPN uses 150MHz channel of the frequency permitted as a private communication network. and generating power is 5 Watt , designed as a simplex, light-weight communication device for a private communication network, GT-150HPN adopts a way of X-TAL which is highly-reliable and it is designed to be used in buildings, hospitals, hotels, department stores, and factories efficiently.

## 1.2 Feature

### 1) light-weight transmitter

By using the latest SMT technology, it achieves miniaturization of the equipment and is possible to be set up in a narrow space.

### 2) Access to PAGING TERMINAL

It is connected to Paging Terminal and receives the signal of wireless call and transmits a data of POCSAG FORMAT.

### 3) Adopting POCSAG

POCSAG Protocol is standarded in the domestic wireless calls and compatible.

### 4) Adopting RS-422

150HPN adopts RS-422 by PAGING TERMINAL and INTERFACE which is reliable to be operated in factories and many areas which is full of noisy.

### 5) Adopting highly-reliable quartz vibrator

Adopting the X-tal which means the frequency of high reliability and stability in surrounding temperature change.

### 6) TX ON/OFF remote control

It operates only in case there is any data to transmit and it sends confirmation

signal(OUT OF RANGE) by regular intervals to the area available to receive.

### 1.3 composition

RFA-700B(text receiver) 1 EA

- 1) RS-422 receiver and TX control part
- 2) modulation and transmission frequency occurrence.

### 2.1 General standard

- 1) Communication form: Simplex
- 2) Frequency range: 150.6375 ~ 150.7125MHz
- 3) The number of available channel : 3 channels
- 4) Transmission speed : 512bps
- 5) Control form : digital code
- 6) RD impedance : 50Ω
- 7) Oscillation type : quartz vibrator
- 8) Modulation form : direct frequency modulation
- 9) Temperature range : -10°C ~ +50°C
- 10) Power : 12.5 Volt DC
- 11) Size : 295 X 265 X 285 mm

### 2.2 Transmission standard

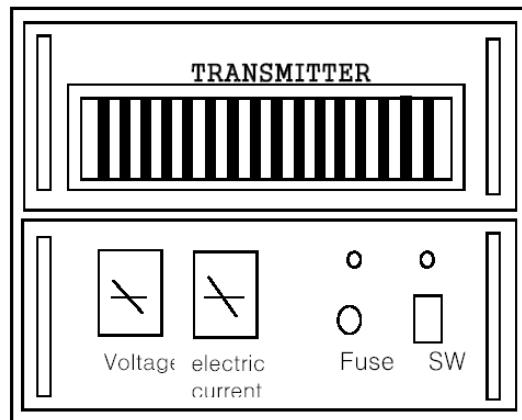
- 1) Output of power : within 5 Watt
- 2) Electric wave type : F2D
- 3) Frequency accuracy : +/-6 PPM
- 4) Maximum frequency deviation : +/-2.5KHz
- 5) Occupied bandwidth : within 8.5KHz
- 6) Spurious emission Intensity: under 2.5mV
- 7) Adjacent channel leakage power : over 70dB

## Chapter 3. External form and Instruction of control

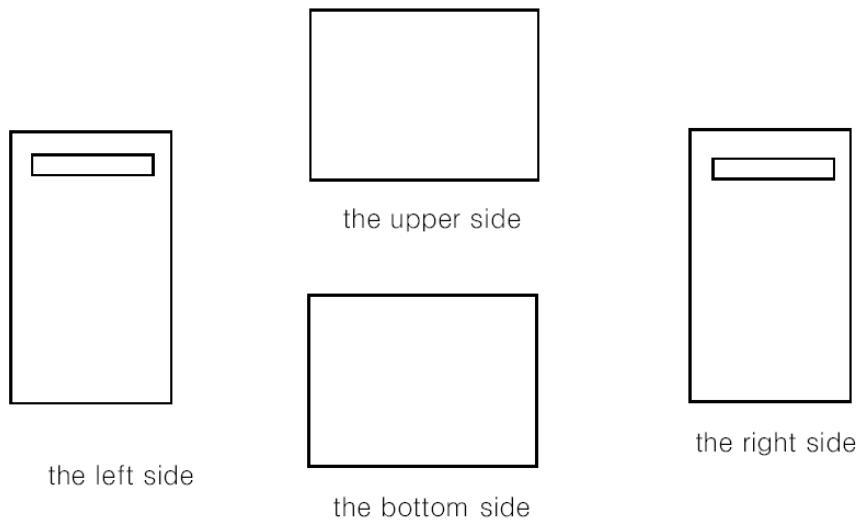
The external of transmitter consists of access terminal to connect to PAGING TERMINAL and to 12.5V DC. The transmitter functionally, is made up of RS422 receiver, control circuit, modulation, transmit frequency generating circuit, power amplifier.

### 3.1 External form and composition

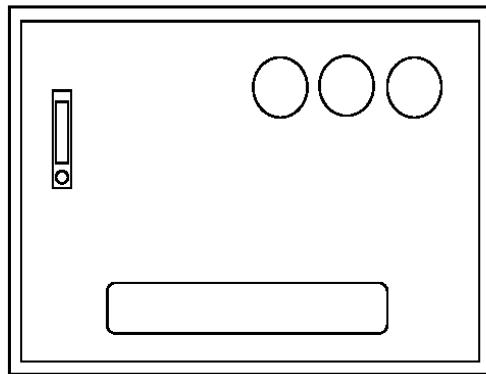
#### 3.1.1 Front panel



#### 3.1.2 Side panel



### 3.1.3 Back panel



#### 1) BNC CONNECTOR

AS a connection terminal with antenna,

BNC CONNECTOR is antenna connections he output of the transmitter is sent by the antenna connected with CONNECTOR.

#### 2) PAGING TERMINAL connections

Accepting the data of POCSAG FORMAT sent from Paging terminal in a way of RS-422 INTERFACE through this connections and transmitting the Data to RS-422 receiver.

Pin is composed of DATA terminal and GROUND.

- \_ Supplied with DC 12.5V from the external
- \_ Red color : +
- \_ Blue color : -

**CAUTION: To comply with RF exposure requirements, the antenna which is connected to this device requires a minimum distance of 0.5 meter between it and all persons.**

FCC Warning:

No changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.