

# SAMRAT- 501/502



## Salient Features



- ◆ **Pairing**  
Any transmitter & receiver can be paired on-site (for easy spare management)
- ◆ **Adjustable Range**  
Operating Range Adjustment (from 10m to 100m)
- ◆ **Adjustable Start Range**  
Only START functionality can be range adjustable
- ◆ **Password**  
Transmitter password protection
- ◆ **Frequency Change**  
Operating channel can be changed on site
- ◆ **Idle Time**  
Configurable Idle Time out in Transmitter

## Additional Features

Emergency STOP	2 NC contacts for EMS (EN-954-1 Safety Standard)
Indication	LED Indication for Battery LOW, Transmission and Error status
Address Code	Unique Address Code to avoid interference
Antenna	Internal Antenna in transmitter & receiver
Relay Assignment	Configurable Relay assignment available
Auxillary Functions	Selector Switch / Toggle Switch/ Push Buttons /Rotary Switch

## Transmitter

Operating Frequency	433-434 Mhz
Channel Spacing	25 KHz
Modulation	FM (4GFSK/2GFSK)
RF Power Output	10 mW
Power Consumption	18 mA (Unidirectional)
Standby Power Consumption	1 mA
Battery Capacity and Type	2 nos, AA size Alkaline, 3.0V
Operating Temperature	-20°C to +70°C
Weight	275 gms (without battery)
Dimensions (mm)	202 (H) X 60 (W) X 50 (B)
Operating Range	100 meters
Protection Rating	IP 65 IS/IEC 600529:2001

TRANSMITTER	RECEIVER
	
<b>SAMRAT - 501</b>	<b>SAMRAT - 502</b>
10 Pushbutton Single speed	10 Pushbutton Double speed

## Technical Specification

Number of commands in Transmitter unit <b>SAMRAT-501</b>	10 + Start/Stop + Alarm
Number of commands in Transmitter unit <b>SAMRAT-502</b>	20 + Start/Stop + Alarm
CRC	32 Bit
Response Time	<50 ms
Active Emergency Response Time	<50 ms
Passive Emergency Response Time	1900 ms

## Receiver

Operating Frequency	433-434 Mhz
Channel Spacing	25 KHz
RF Sensitivity	-117dBm at 0.6kbaud
Number of Relays <b>SAMRAT-501</b>	Upto 19 + 2 (Start/Alarm)
Number of Relays <b>SAMRAT-502</b>	Upto 21 + 2 (Start/Alarm)
Relays	Resistive load: 5A at 250VAC
Power Requirements	48VAC - 230VAC
Fastening	By means of Nuts & Bolts
Operating Temperature	-20°C to +70°C
Weight	Approx 1.2 Kg
Dimensions (mm)	282 (H) x 220 (B) x 110 (W)
Operating Range	100 meters
Protection Rating	IP 65