

Signal Repeater

Model: SR



Master / Slave

BS-PS
(Power Supply with Batt Back up)

We extend a warm welcome to you on becoming a part of the Copper Connections family. Our service support Engineers shall be working hard through our channel partners to ensure your satisfaction with the product and after sales services. We welcome your feedback / query at service@copperconnections.com

Features

Extends the wireless range of Wireless Sensors manufactured by CCL

It enhances the wireless range of Wireless sensors to double the range.

Can be used one or more in series to increase the range further

Multiple Signal Repeaters can be used to further enhance the wireless range of Wireless sensors.

Built-in dry Cell to power the unit during momentary power interruptions

If the mains is interrupted momentarily, the unit works on built-in cells.

Low battery message to the main unit

When the Cell of the unit goes low, a message is sent to the main unit (Burglar Alarm System) which in turn gives the relevant message on the main panel as well as through SMS.

Tamper Protection

If this unit is removed, the Burglar Alarm System would sound Alarm, dial out and give SMS to the user. This would happen in all conditions, whether the system is ARMED or DISARMED.

Rechargeable battery back-up supply (Optional)

Optional rechargeable Li Battery backed power supply can be provided to make this unit work during power failures.

Installation

- This sensor consists of following parts:
 - SR- 1 Master (Unit to be installed near BAS Panel)
 - SR- 1 Slave (Unit to be installed between BAS Panel & Wireless Sensor)
 - Two Power Supplies marked as "BS-PS" having rechargeable Li batteries.
- Open "BS-PS" and connect the 2 Battery connectors to the sockets on PCB.
- Open the 'SR- 1 Master' Unit and connect "BS-PS" to 'SR- 1 Master Unit' with 2 wires as indicated below:

Connector of "BS-PS"	Connector of "Master Unit"
O/P +	" + 12V "
O/P -	" - "

In Master Unit, Keep DIP Switch 1 at ON Position & in SR-1 Slave, keep all DIP Switches OFF

Similarly connect other "BS-PS" to the SR- 1 Slave Unit. Keep all DIP switches at OFF position.

- In both Master Unit and Slave Unit, remove the paper that is inserted between the Cell and Clamp. This paper is inserted to keep the cell disconnected in transit.
- Hang the Master and all Signal Repeaters with 2 Nails on wall at minimum 1 feet above the ground.
- Place the Magnet at the bottom, along the marking "Magnet Side". This Magnet is for Tamper Protection.
- Install the Master Unit close to BAS panel within a distance of 5m.

Precautions:

- Install in an open ventilated area. Do not install it areas where it gets exposed to rain or direct sun light.
- Keep it at least 5 feet less than the maximum wireless distance covered by the SR.

Maximum range would be attained with the Antennae fully extended. It should be placed away from all electrical disturbances to get maximum wireless range.

- If Antennae is extended then fix it with ELFY so that no one can collapse it.

Registering in the BAS

Tamper Protection of signal repeater would work only after the following registration:

Register it as a Wireless Sensor in BAS (Burglar Alarm System) as explained in the BAS Manual.

During the registering procedure, this unit can be triggered by removing the Magnet unit away from the Main unit.

It should be registered in "Tamper Zone"

Operating Instructions

The signal repeater can register up to 50 wireless devices. Signal repeater will work only for those sensors that are registered in signal repeater.

Registering a Sensor / Remote

Press ADD key at the back of the signal repeater for 10 seconds.

LED starts blinking slowly.

Release ADD key.

Trigger the sensor to be used with SR.

LED glows for a long duration indicating successful registry.

Press DEL key to exit.

Deleting a Sensor / Remote

Press DEL key at the back of the signal repeater for 10 seconds.

LED starts blinking fast.

Release DEL key.

Trigger the sensor to be deleted from SR.

LED glows for a long duration indicating successful deletion.

Deleting all Sensors / Remotes

Press DEL key at the back of the signal repeater for 15 seconds.

LED starts blinking fast .

Keep DEL key pressed.

LED will glow for a long duration and will switch off.

Note:

- Make sure all other sensors are NOT working during registration and deletion.
- To test the range of a sensor use wireless magnetic sensor in Traitor mode.

Multiple Signal Repeaters

Up to four signal repeaters can be cascaded in order to enhance wireless range of sensors.

After the first Signal Repeater (SR- 1 Slave), SR-2, SR- 3 and SR-4 can be connected.

The SR-2 unit will be placed between SR-1 Slave Unit and Wireless Sensor, the SR-3 between SR-2 and wireless sensor, and so on.

Using SR-1 Master & SR-1 Slave:

DIP Switch of SR-1 Master= 1 to be ON; DIP Switch of SR-1 Slave= all OFF

Using SR-1 Master, SR-1 Slave & SR-2 Slave:

DIP Switch of SR-1 Master= 1 & 2 to be ON; DIP Switch of SR-1 Slave= 2 to be ON; DIP Switch of SR-2 Slave= all OFF

Using SR-1 Master, SR-1 Slave, SR-2 Slave & SR-3 Slave:

DIP Switch of SR-1 Master= 1, 2 & 3 to be ON; DIP Switch of SR-1 Slave= 2 & 3 to be ON; DIP Switch of SR-2 Slave= 3 to be ON; DIP Switch of SR-3 Slave= all OFF

Using SR-1 Master, SR-1 Slave, SR-2 Slave, SR-3 Slave & SR-4 Slave:

DIP Switch of SR-1 Master= 1, 2, 3 & 4 to be ON; DIP Switch of SR-1 Slave= 2, 3 & 4 to be ON; DIP Switch of SR-2 Slave= 3 & 4 to be ON; DIP Switch of SR-3 Slave= 4 to be ON; DIP Switch of SR-4 Slave= all OFF

Technical Specifications

Power Input	12V DC		
Operating Current	Less than 30mA at 12V	Wireless Range	180 ft. in ideal conditions.
Stand by current	Less than 10mA	Cell (Built-in)	12V (23AE)

Note:

- Copper Connections Pvt. Ltd reserves the right to alter equipment specifications and descriptions contained herein and make no commitment to update or keep current the information herein. All information herein is subject to change at any time without notice. No part of this publication shall be deemed to be part of any contract or commitment whatsoever.
- Product specifications and features are subject to changes without prior notice due to our constant endeavor to improve the product.

Terms of Warranty

Copper Connections Pvt. Ltd warrants that this product is manufactured under stringent quality standards, making it free from defects in material and workmanship, as per the following terms and conditions:

1. The limited warranty for the system is valid for a period of twelve months from the date of purchase or fifteen months from the date of manufacture which ever is earlier.
2. The limited warranty extends only to the original consumer/ purchaser of the product and is not assignable or transferable to any subsequent purchaser/ end user.
3. During the limited warranty period, Copper Connections Pvt. Ltd or its authorised service network will repair or replace, at Copper Connections Pvt. Ltd option, any defective product or parts thereof with a new or factory rebuild replacement items and return the product to the consumer in working conditions. No charge will be made to the consumer for either parts or labour in repairing or replacing the product. All replaced parts shall become the property of Copper Connections Pvt. Ltd.
4. Repaired product will be warranted for a balance of original warranty period.
5. Upon request from Copper Connections Pvt. Ltd or its authorised service centre, the consumer must provide purchase receipt or other information to prove the date and place of purchase.
6. This Burglar Alarm System (like any other commercial or residential alarm system) does not guarantee protection against burglary, fire or other emergency because of variety of reasons.
A properly installed and maintained system may reduce the risk of a burglary, robbery, fire or other events, but it is not an insurance or a guarantee that such will not occur or that there will be no personal injury or property loss as a result.
7. In no case shall seller be liable to anyone for any consequential or incidental damages for breach of this warranty, even if the loss or damage is caused by the seller's own negligence or fault. Consequently, seller shall have no liability for any personal injury, property damage or other loss based on a claim "The product failed to give warning / alarm". However, if seller is held liable, whether directly or indirectly, for any loss or damage arising under this warranty or otherwise regardless of cause, seller's maximum liability shall not in any case exceed the purchase price of the product.
8. The consumer shall have no benefit or coverage if any of the following conditions are applicable:
 - a) The product has been subjected to abnormal use, abnormal condition, improper storage, exposure to excessive temperature, moisture, dampness or fire etc., unauthorised modifications, unauthorised connections, unauthorised repairs.
 - b) Copper Connections Pvt. Ltd was not notified by consumer of the alleged defect or malfunction of the product during the limited warranty period.
 - c) The product was used with or connected to equipment not fit for use with Copper Connections Pvt. Ltd system or used in other than its intended use.
- d) **INCASE HIGH VOLTAGES APPEAR ON EARTH.**
- e) **THE DAMAGE IS CAUSED BY LIGHTENING OR DUE TO SPIKES/ SURGES/ HIGH VOLTAGES FROM AC MAIN SUPPLY.**
9. The consumer may contact the authorised dealer to call the service personnel for carrying out repairs or maintenance and the same would be attended within a reasonable response time assigned to the dealer. The consumer will be billed for parts or labour charges not covered by this limited warranty.
10. The consumer will be billed for parts or labour charges not covered by this limited warranty.
11. If the product is brought to Copper Connections Pvt. Ltd for repairs, after the warranty period, Copper Connections Pvt. Ltd normal service policy shall apply and customer shall be charged accordingly.
12. In no event shall Copper Connections Pvt. Ltd or their authorised dealer be liable for special or consequential damages or any delay in the performance of this warranty due to causes beyond their control. Copper Connections Pvt. Ltd shall not be liable for incidental or consequential damage or a loss of anticipated benefits or profits, loss or impairment of privacy of conversation, work stoppage or loss or impairment of data arising out of the use or inability to use the product. Company's liability in no event and under no circumstances shall exceed the price paid to the company for goods stated in the invoice.
13. Copper Connections Pvt. Ltd neither assumes nor authorises any authorised service centre or any person or entity to assume for it any other obligation or liability beyond what is expressly provided by this limited warranty. All warranty information, product features and specifications are subject to change without prior notice.
14. Any dispute arising out of this warranty shall be subjected to jurisdiction of the arbitrator within the city of Delhi.
15. The decision of Copper Connections Pvt. Ltd on defects, damages etc shall be final and binding on the parties and no dispute regarding this, could be agitated before any civil court.

Version: SR 315 MHz- 2

An ISO:9001:2008 Certified Company

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