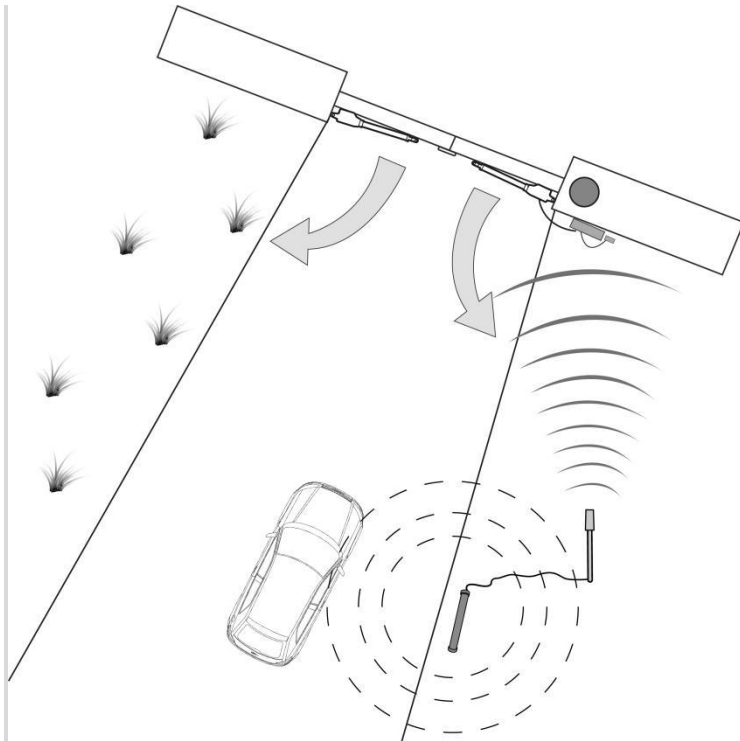


Haupowfo®

Wireless Vehicle Exit Wand Sensor

(Item NO.: HP008/FM130)

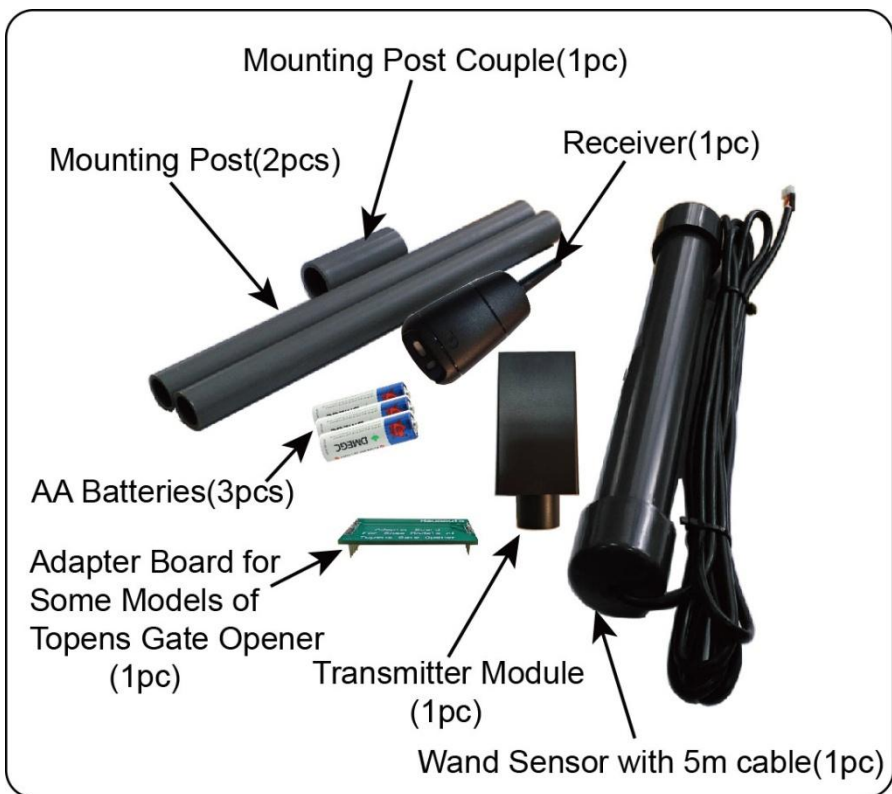


NOTE: Please read this manual thoroughly before installation.

NOTE: The WAND may sense a bicycle, tricycle or other equipment include mass of metal which would activate the gate opener.

NOTE: To ensure your home security, we strongly recommend you to set Auto Close function of the gate opener when the exit wand(HP006& HP008) is used.

1. Package Included



3. Installation

NOTE: Before you permanently install the EXIT WAND, you should determine where to place the wand sensor and prepare some PVC conduit to route the cable to the transmitter. It recommends that the cable shall be run in PVC conduit to the transmitter to prevent the cable damage from lawn mowers, weed eaters and grazing animals.

NOTE: To ensure your home security, we strongly recommend you to set Auto Close function of the gate opener when the loop detector(LM155) or exit wand(LM157&LM158) is used.

Determine where to place the wand sensor and transmitter module

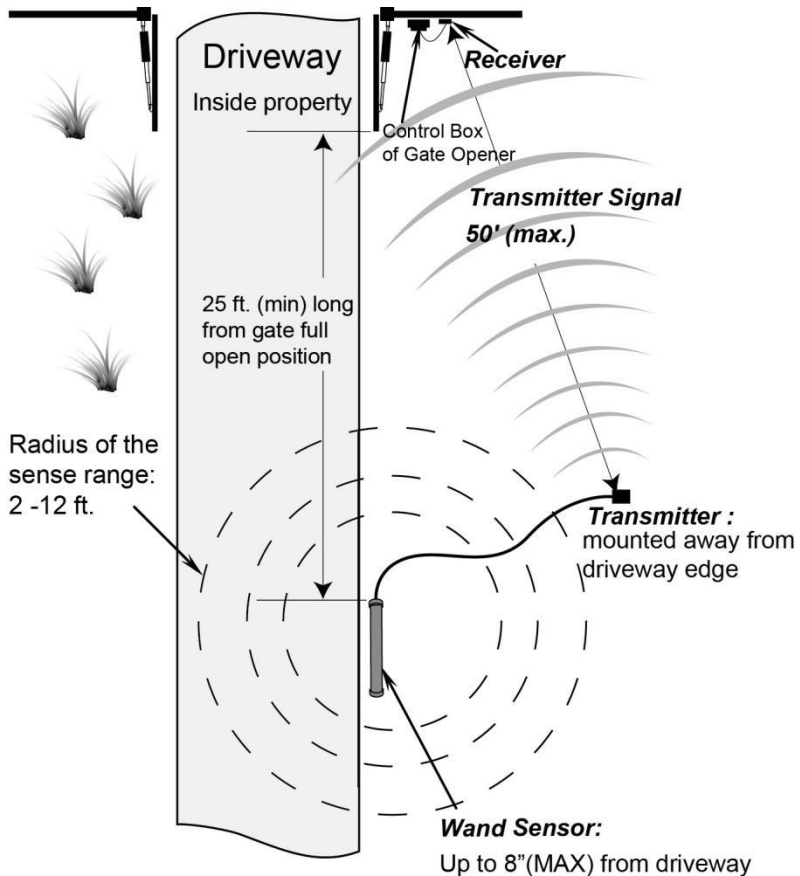
NOTE: Install transmitter module and sensor on the same side of the driveway as the receiver/control box of the gate opener.

Placement of the wand sensor

1. No more than 8 inches from the edge of driveway.
2. At least 25 ft. from leading edge of open gate, road ways, neighboring driveways.
3. Parallel to direction of the driveway.

Placement of the transmitter

1. No more than 50 ft. from the receiver.
2. Away from the driveway edge so that the vehicles are unlikely to hit it.



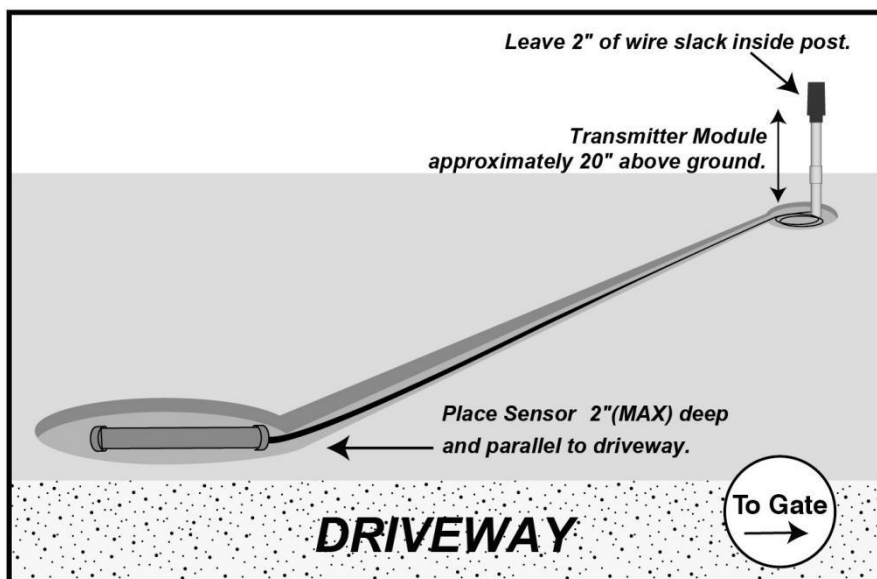
Sensor Range distance is approximate and will vary due to outside interference, vehicle mass, speed, etc.

For optimum performance:

1. Install the sensor far away as possible from transformers, power lines, underground gas lines, and telephone lines.
2. Locate the sensor away from general moving traffic to prevent unwanted activation.
3. Do not run sensor cable in conduit with other wires such as AC power or other control wires.

Install the wand sensor and transmitter module

NOTE: Clear an area 25 ft. in all directions of metal tools, toys and automobiles to prevent magnetic disturbance during testing and installation.



Step 1: Dig a hole for the sensor, 2" deep and 15" long. Be sure the hole is flat and parallel to the direction of the driveway and not more than 8 inches away from the driveway.

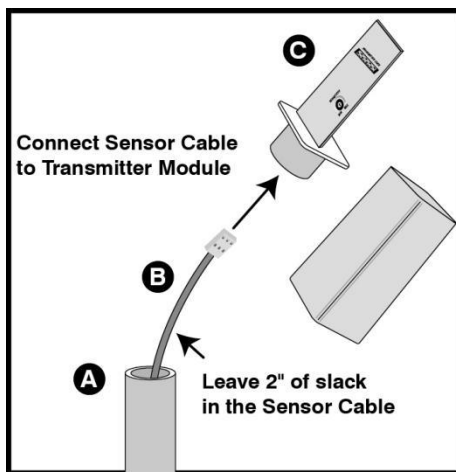
Step 2: Dig a trench in which to lay the sensor cable from this hole to where you will install the transmitter module. The trench could be at 2" deep (MAX.) to prevent possible wire damage from lawn mower, weed eaters and grazing animals.

Step 3: Lay the sensor in the hole parallel to the driveway and the sensor cable in the trench. Do not cover the hole or trench until the transmitter signal has been

tested. Lay your desired length of sensor cable, and coil the rest part beside mounting post.

Step 4: Assemble the mounting post. Use the couple to connect the two longer pieces.

Step 5:Run the sensor cable(**B**) through the mounting post(**A**)and plug it into the connector at the bottom of the transmitter module(**C**). Allow 2" slack in the cable to prevent damage to the connector if transmitter module is removed.



Step 6:Attach the transmitter module to the mounting post. At this time, you can put the mounting post in the ground, but don't fill the hole until after testing the system.

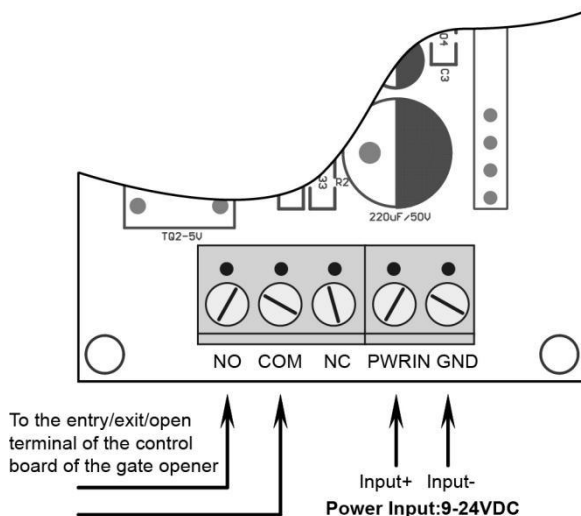
Install the Receiver

NOTE: You should install a water proof cover for the receiver if you plan to install the receiver exposure to the water completely.

NOTE: The receiver can also be placed in the control box of the gate opener if it has spare space.

3. Connection

Wiring the receiver to the gate opener with OPEN/ENTRY/EXIT terminal



There are 5 terminals on the receiver board, “NO” “COM” “NC” “PWRIN” “GND” terminals. “PWRIN” and “GND” are used for power input. Power supply of the receiver could be 9-24VDC. “NO” and “COM” terminals are used to connect to the entry/exit/open terminal of the control board of the gate opener.

Testing

NOTE: Please make sure there is no moving metal object in the range of the sensor, when the transmitter module is initially powered up, please wait for 60 seconds which allows the transmitter module and wand sensor self test and environment calibrations

NOTE: Every time you adjust the sensitivity you need to re-power the transmitter module to make the new setting effective.

After installation and wiring the transmitter module and receiver, you must test to see if it works properly and if the range needs to be adjusted for optimum performance.

Turn the potentiometer (POT) clockwise to increase range.

Turn the potentiometer (POT) counter-clockwise to decrease range.

Cover the WAND sensor and the sensor cable (PVC conduit) after everything is tested OK.

Trouble Shooting

If the WAND is not working:

1. Make sure all connections are correct.
2. Make sure the codes between the transmitter module and receiver is same.
3. Make sure the Range Adjustment is set at maximum range.
4. Disconnect the power (remove the battery) to the transmitter module.

Reconnect the power to the transmitter module and make sure that no metal object or vehicle is moving around the WAND for 60 seconds while it is calibrating.

Test the WAND to verify that it is working properly.

FCC Statement

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. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the

interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.