

Reference Documents

- PerceptIs Installation Manual (p/n 805I0301)
- Hugs System Manual (p/n 805U1601)
- PerceptIs System Manual (p/n 805U0601)

Warnings

- No User Adjustments - there are no user adjustments. Tampering with the internal circuitry may cause component or system failure, or both, and will void the warranty.
- Do not touch or otherwise handle the internal components; doing so shall void the warranty.

Warranty

Instantel's products are warranted against defects in materials and workmanship and shall perform in accordance with published specifications for a period of one year. Instantel Inc. reserves the right to change specifications without notice.

Limitation of Liability

This Product has been designed for use to: a) assist personnel in summoning help when they are under personal duress, b) assist in the prevention of infant abduction c) locate assets, d) assist in the prevention of the loss of assets and/or e) to reduce the risk of resident wandering through remote detection.

The range, accuracy, function and performance of this Product may vary from the published specifications due to many factors, including, without limitation, site impairments from structural effects, metal objects in the vicinity, placement of the receiver and transmitter, interference from other electrical devices, atmospheric effects, installation, and maintenance. There may be other factors which also affect performance of this Product. Instantel does not guarantee that this Product will: a) detect 100% of the calls for personal assistance, b) detect 100% of infant abductions, c) locate all assets 100% of the time, d) prevent the loss of assets, and/or e) detect 100% of resident wandering nor does Instantel guarantee that this Product will not return false reports of resident wandering.

Monthly testing and maintenance of this Product, as described in the Product documentation, is essential to verify the system is operating correctly and to ensure that the probability of detecting an alarm and locating the tag are maximized. The failure to undertake regular testing and maintenance will increase the risk of system failure and: a) failure to report personal duress calls, b) failure to locate assets, c) failure to prevent the loss of assets.

Instantel hereby disclaims all warranties, express or implied, arising out of or in connection with any of its Products of the use or performance thereof, including but not limited to, where allowable by law, all other implied warranties or conditions of merchantable quality and fitness for a particular purpose and those arising by statute or otherwise in law or from a course of dealing or usage of trade.

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Instantel's liability to you or anyone claiming through or on behalf of you with respect to any claim or loss arising out of the use or misuse of Instantel's Product, defective products or materials, improper installation or maintenance of Instantel's Product or products or the system in which they are incorporated, or alleged to have resulted from an act or omission of Instantel or any person, negligent or otherwise, shall be limited to:

- A) The repair or replacement of defective Product or materials supplied by Instantel during the warranty period as set out in the Product documentation; or,
- B) At the option of Instantel, refund of the purchase price of the Product supplied by Instantel.

In no event shall Instantel be liable for general, specific, indirect, consequential, incidental, exemplary or punitive damages or any losses or expenses suffered by you or anyone else, whether or not Instantel, or its employees, officers, agents, resellers or installers has been informed of the risk of such loss or expense and whether or not such losses or expenses were foreseeable.

Statements:

United States FCC

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.

Canada ISC

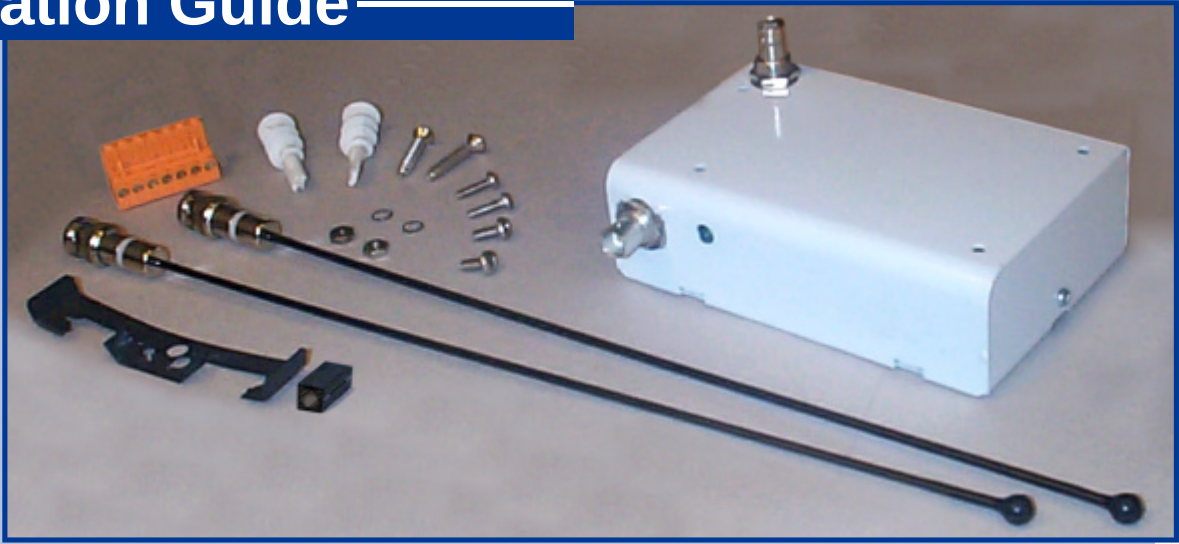
This device complies with RSS-210 of Industry and Science Canada. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Phone: Toll free 800-267-9111 (United States and Canada) or 613-592-4642
Fax: 613-592-4296
Address: 309 Legget Drive, Kanata, ON, Canada, K2K 3A3 or 826 Proctor Avenue, Ogdensburg, NY, U.S.A., 13669-2203
Website: www.Instantel.com

Local Area Receiver Installation Guide

DRAFT

 **Read these instructions thoroughly before installing the Local Area Receiver. Faulty installation can lead to system failure.**



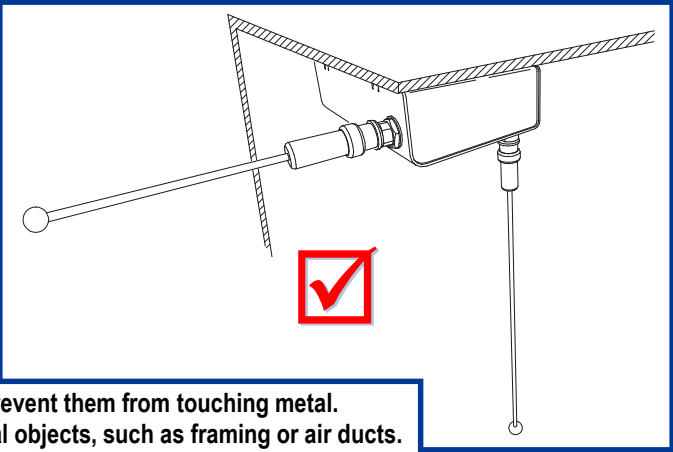
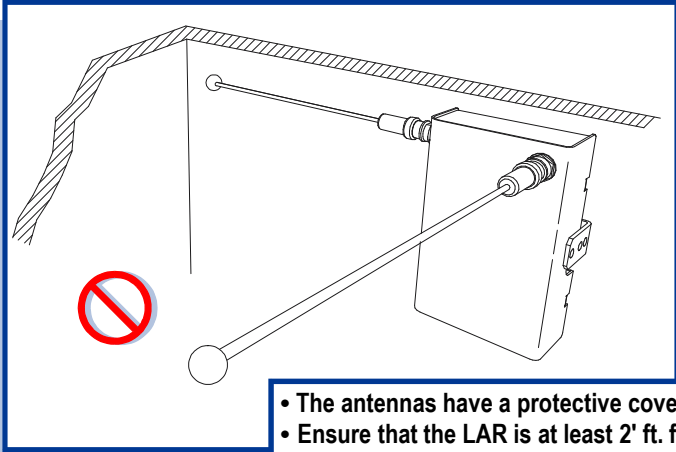
MATERIALS REQUIRED

- Instantel Local Area Receiver (p/n 805A0501).
- Facility floor plan indicating LAR positions and network wiring path.
- Network Terminator 105 Ω (p/n 805A2401) required to terminate network. Two terminators are provided with each Controller PC (p/n 805A2201) or Laptop Controller (p/n 805A2202).

LAR SPECIFICATIONS

Frequency	217 MHz
Supply Voltage	10 to 30 VDC
Current Draw	60 mA @ 12 VDC or 24 VDC, 100 mA Maximum
Detection Radius	50 ft. (15 meters) overlapping LARs 35 ft. (11 meters) stand-alone LARs
Communications	LonWorks 2 wire
Temperature	32° to 122° F (0° to 50° C)
Humidity	0 to 90% RH @ 70° F (21° C), non-condensing
Dimensions	Approximately 5.2 x 3.3 x 1.5 in. (133 x 84 x 38 mm)
Weight	Approximately 9.2 oz. (260 g)

LAR ORIENTATION



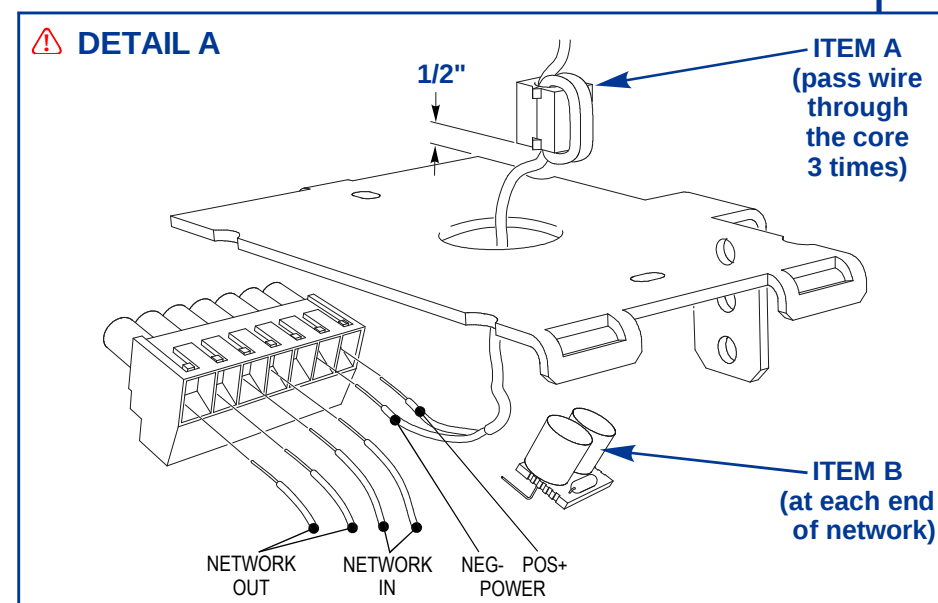
- The antennas have a protective covering to prevent them from touching metal.
- Ensure that the LAR is at least 2' ft. from metal objects, such as framing or air ducts.
- Main antenna should be pointing downward into an area free of metal obstructions.

Local Area Receiver

Installation Guide

STEP	DESCRIPTION
	Prior to installing the LAR, ensure that the Power Supply is TURNED OFF to prevent electrical shock or damage to equipment.
1	Locate and record the LonWorks identification number onto the facility floor plan indicating the LAR's position and network wiring path.
2	Remove the Mounting Plate from the LAR. Attach the Split Ferrite Core (Item A) to the power supply wire, passing the wire through the core three times. Leave enough wire length so that the ferrite core is 1/2 inch from the outside of the LAR case, as shown in Detail A. If the LAR is to be installed to a receptacle box, pass the network and power supply wires through the hole in the Mounting Plate. Otherwise, wire the connector as shown, and put the wires through the slot provided on the side of the LAR case in Step 4. Connect the LonWorks Network IN, Network OUT, and Power Supply to the terminals, as shown in Detail A. If the LAR is at the end of the network, then terminate the network segment with Item B (105 Ω terminator).
3	Referring to the facility floor plan, position the LAR Mounting Plate. Do not place near metal objects and structural frames. Ensure that the status LED will be visible and that space is allowed for the antennas. Install the LAR Mounting Plate using one of the following methods. A) Fasten to a suspended ceiling guy wire, using: 1-Caddy, multi-function clip 2-Screws, machine 2-Nuts, hex B) Install with the L-bracket on the Mounting Plate, or with the two holes provided for attachment to a receptacle box, using: 2-Screws, wood 2-Hollow wall anchors C) Install the LAR to an existing receptacle box, using: 2-Screws, machine 2-Nuts, hex.

STEP	DESCRIPTION
4	Plug the wired connector into the LAR and install the LAR onto the Mounting Plate, using the screw removed in Step 2. DO NOT place excess network and power supply wires inside the LAR case.
5	Install the two antennas. <i>The antennas have a protective covering to prevent them from touching metal. Ensure that they do not touch metal objects; do not encase, wrap, or otherwise cover the antennas with metallic materials.</i>
	DO NOT turn on the Power Supply until all devices are installed. After the system is installed, complete the following steps.
6	Turn Power ON. Add the LARs to the Perceptics software using the Auto Configure command in the LonWorks Device Installation dialog box. Add LAR icons to the facility maps representing the LARs' actual physical location.
7	Commission the system. Check all system components, and ensure that the Perceptics software displays all LARs and receives all alarms from each LAR. Check LAR coverage; see the Commissioning chapter in the Perceptics Installation Manual (p/n 805I0301) for further instructions.



Service Light	
OFF	Normal Operation.
Flashing every 0.5 seconds.	Unconfigured LAR. Requires configuration using the Perceptics software.
ON	Trouble. Hardware Failure. Download new OS software to the LAR. See the LAR installation section of the Perceptics Installation Manual.

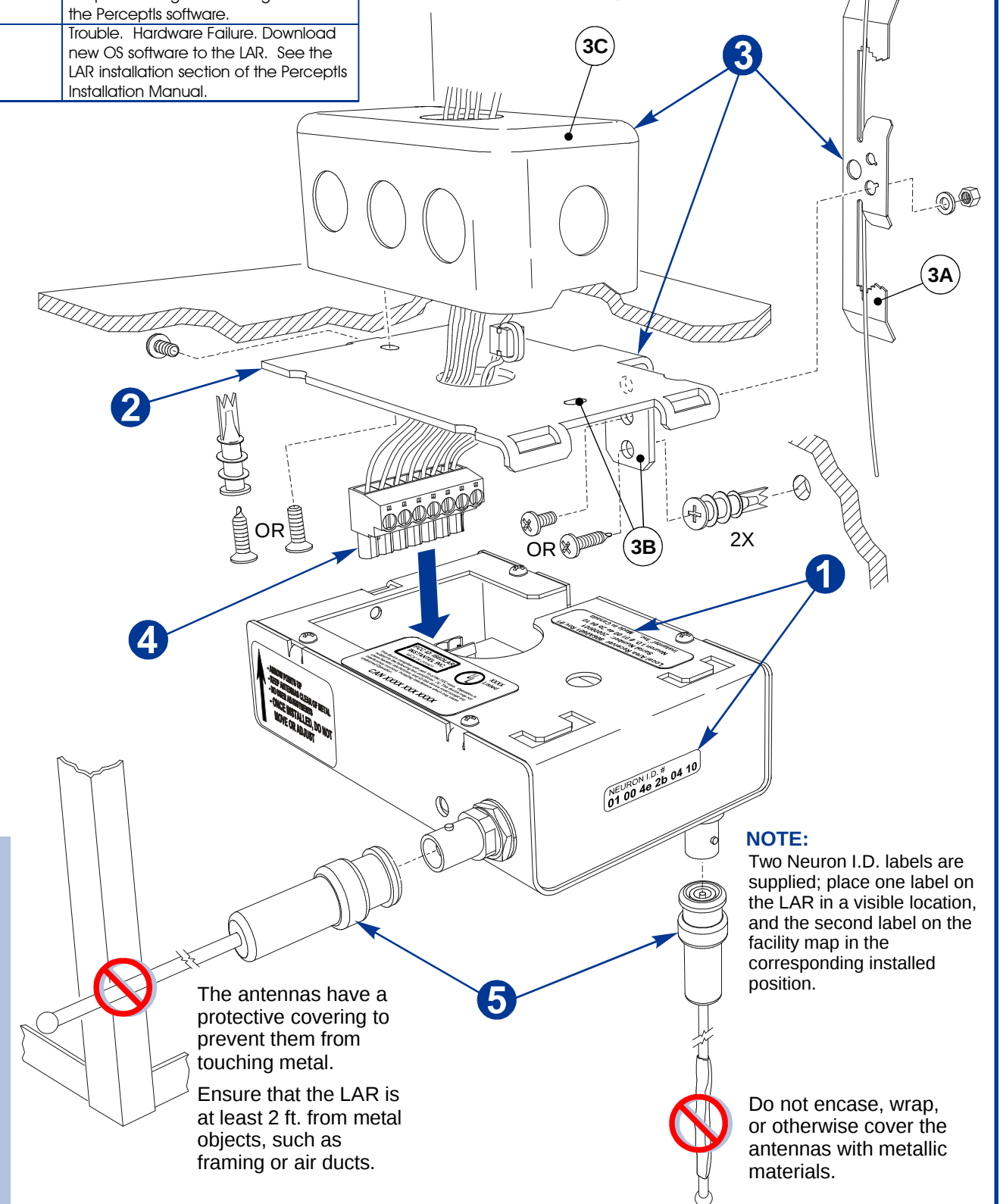


Figure 1 - Local Area Receiver Installation