



Nokē
Repeater 2.0
Installation Instructions
Ver. 1.0

Before Starting

This Installation Instructions provides step-by-step instruction for installing a Wired Repeater 2.0 for different applications to improve network connectivity. The Wired Repeater 2.0 is designed for easy installation onto magnetic surfaces. It is also possible to install it onto non-magnetic surfaces when needed.

Parts

Repeater 2.0	200407-0001	
Power Cable	200328-0960	
T Tap connector		
Screw	$\frac{3}{4}$ " #6	

Technical Specifications for Repeater 2.0

- Wireless connectivity: 2.4GHz, Bluetooth and proprietary mesh protocol
- Power: 10.5-27.0VDC
- Idle Current: 200uA
- Active current: 15mA
- Operating temperature: -40C to 80C
- Mounting: Magnetic and Screw

Repeater 2.0 Installation Considerations

- Ensure that all repeaters are mounted at a height between 8' and 12'
- Repeaters require Line of Sight (LoS) connection between connected devices. Ensure that no objects block this LoS
- Ensure that any extra installation materials are outdoor-rated
- Ensure that the repeater is installed in the correct orientation (see **Figure 3**). Incorrect installation may result in water collection, potentially damaging the device
- Maximum effective range of the device is 300 feet
- The repeater is designed with several knockout or breakaway features. Avoid knocking out features that are not planned to be used during installation. This will ensure best water-proofing practices
- Be cautious when removing breakaway features. Always apply force from the inside of the repeater enclosure to avoid accidental damage to the circuitry inside
- It is recommended to follow ESD best practices when the repeater enclosure is open

Installing and Mounting

Power supply

1. Install Altronix Power supply (backup battery is also recommended). 12VDC or 24VDC modes are both acceptable

Wiring

2. Remove screw A from the unit and remove top cap
3. Carefully knock out the cable entry breakaway (breakaway A)
4. Use the repeater housing as template to mark where the power cable hole must be drilled
5. Remove repeater housing and drill hole through the wall for the power cable
6. Insert power cable 200328-0960 into the back of the housing and connect to the “12-24Vdc Input” connector on the circuit board

Installation on a Magnetic Surface

1. Reassemble top and screw A onto the repeater enclosure
2. Feed power cable through hole and magnetically attach repeater to wall
3. Connect power cable to Altronix power trunk using T tap connector
4. Optional: You may partially or fully follow the instructions for installation on a non-magnetic surface if additional fastening is desired

Installation on a Non-Magnetic Surface

1. Carefully knock out the top and bottom mounting screw breakaway (breakaways B and C)
2. Use the repeater housing as a template to mark where the mounting holes must be drilled
3. Remove repeater housing and drill pilot holes for mounting screws
4. Partially install top mounting screw
5. Feed power cable through hole and hook repeater onto the top mounting screw
6. Screw the top mounting screw until it is flush with the repeater housing
7. Install bottom mounting screw until it is flush with the repeater housing
8. Reassemble top and screw A onto the repeater enclosure
9. Connect power cable to Altronix power trunk using T tap connector



Figure 1. Disassembly screw location.

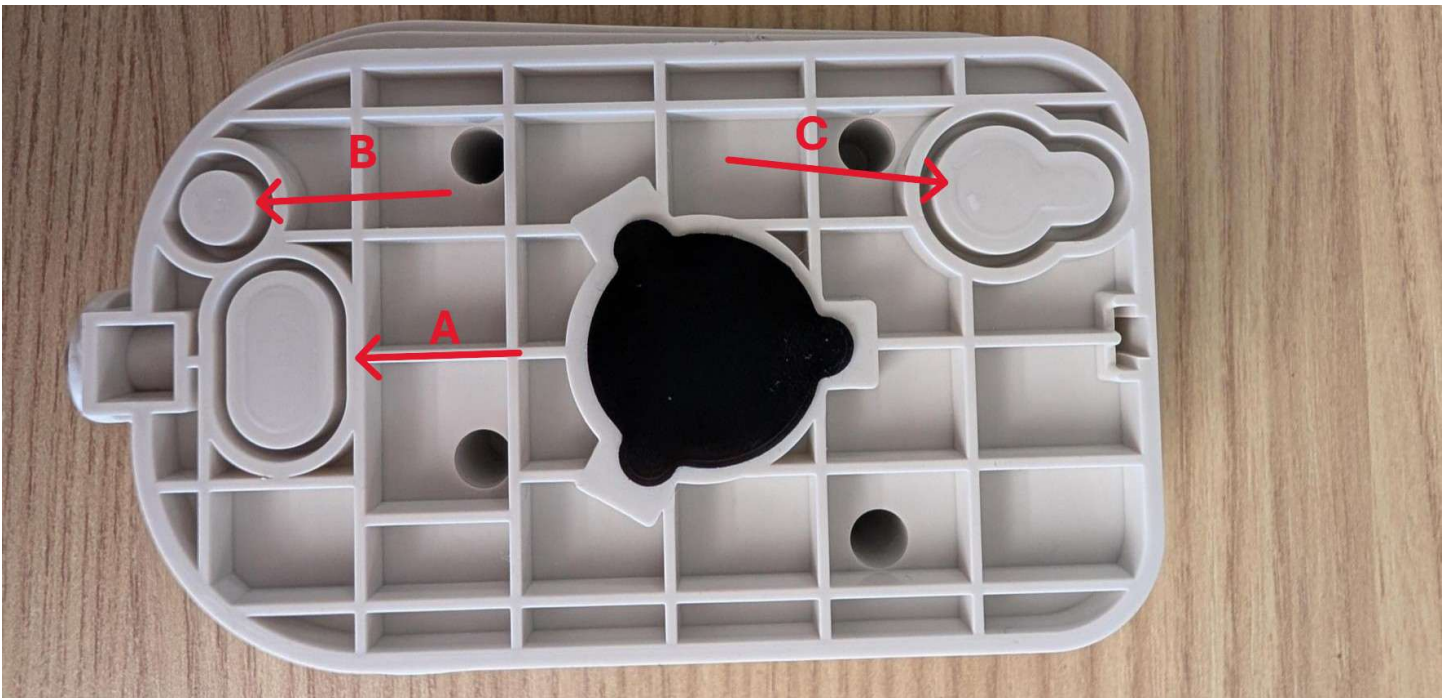


Figure 2. Breakaway/Knockout locations.

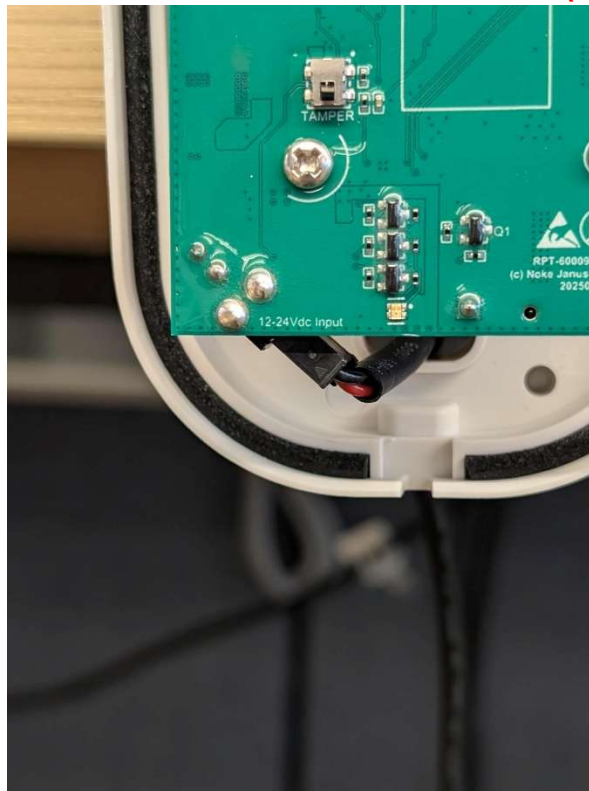


Figure 3. Power cable installation location and device orientation.

Compliance Statement

Nokē Wired Repeater 2.0

FCC ID: 2BGPA-RPTW1

IC: 32315-RPTW1

FCC Interference 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.

Caution: 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.

Safety Information

Retain and follow all safety and operating instructions provided with your equipment. In the event of a conflict between the instructions in this guide and the instructions in equipment documentation, follow the guidelines in the equipment documentation. Observe all warnings on the product and in the operating instructions. To reduce the risk of bodily injury, electric shock, fire, and damage to the equipment, observe all precautions included in this guide. You must become familiar with the safety information in this guide before you install, operate, or service Nokē products.

Chassis

- Do not block or cover the openings to the equipment.
- Never push objects of any kind through openings in the equipment. Dangerous voltages might be present.
- Conductive foreign objects can produce a short circuit and cause fire, electric shock, or damage to your equipment.

Equipment Modifications

- Do not make mechanical modifications to the system. Nokē is not responsible for the regulatory compliance of Nokē equipment that has been modified.

RF Warning Statement

WARNING: Upon initialization, the radio within the device is dynamically assigned a specific country configuration based on the geographical location of the deployment. This process ensures that each radio's broadcast frequency bands, channels, and transmitted power levels are compliant with country-specific regulations when properly installed.

Only use the locality profile for the country in which you are using the device. Tempering or modification of assigned radio frequency parameters will render the operation of this device illegal. Wi-Fi or Wirepas devices for the United States are permanently locked to a fixed regulatory profile (FCC) and cannot be modified.

The use of software or firmware not supported/provided by the manufacturer may result that the equipment is no longer in compliance with regulatory requirements and may subject the end user to fines and equipment confiscation by Regulatory Agencies.

RF Exposure Compliance

This equipment complies with FCC/IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

Cet équipement est conforme aux limites d'exposition aux radiations FCC/IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20cm entre le radiateur et votre corps.

Antenna

WARNING: Only use the supplied or approved antennas. Unauthorized use, modification, or attachments including the use of third-party

amplifiers with the radio module could cause damages and may violate local laws and regulations.

Regulatory Approval

WARNING: Operation of the device without regulatory approval is illegal.

ISED Compliance Statements

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes :

- (1) L'appareil ne doit pas produire de brouillage;
- (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Restriction on Hazardous Substances (RoHS) Compliance Statement

The product complies with environmental requirements as set forth in European Union Directive 2011/65/EU with respect to the following hazardous substances:

- Cadmium
- Hexavalent chromium
- Lead
- Mercury
- Polybrominated biphenyl (PBB)
- Polybrominated diphenyl ether (PBDE)



Nokē Inc. here with declares that this unit complies with the fundamental requirements and relevant regulations set forth by Guideline 1999/5/EU. The declaration of conformity can be found at noke.com/ce or requested by e-mail: support@noke.com