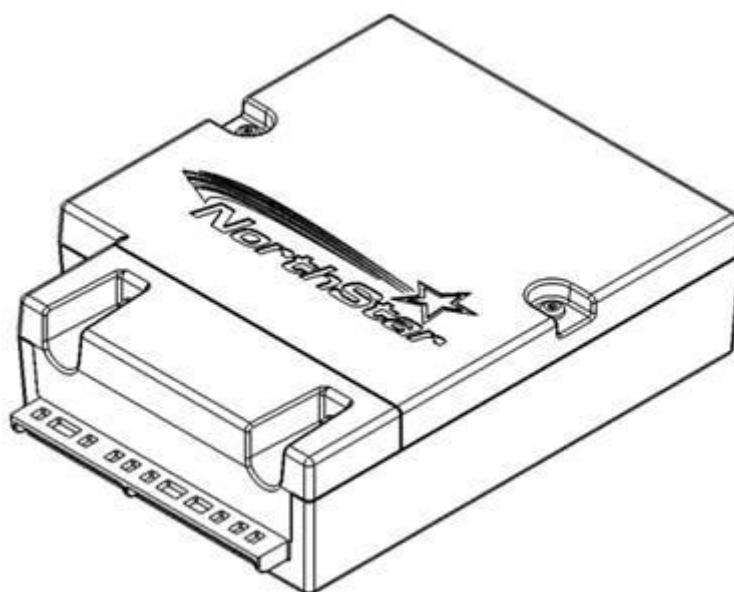




NorthStar ACE[®] GATEWAY



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Disclaimer

The contents of this document are subject to revision without notice due to continued progress in methodology, design and manufacturing.

1 HEALTH AND SAFETY INFORMATION

Installation personnel should exercise care when working on or around electrical equipment. In addition to this safety information, the specific safety instructions for all products involved in the installation procedure should be adhered to.

When work is being done in a power cabinet, the power supply system must be de-energized. The mains supply and, if applicable, all batteries must be disconnected.

Installation personnel must have competence for electrical installation according to local regulations.



Warning!

This product contains components sensitive to ESD. Observe normal precautions for handling ESD equipment. Screws holding the PCBA are grounded. Use one of these points for potential equalization.

2 INFORMATION TO USER

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 gateway.
- 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 an experienced technician for help.

This device complies with Industry Canada's license -exempt RSSs.
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

Cet appareil est conforme aux RSS d'exemption de licence d'Industrie Canada. L'opération est soumise aux deux conditions suivantes :

- (1) Cet appareil ne doit pas causer d'interférence ; et
- (2) Cet appareil doit accepter toute interférence, y compris les interférences pouvant entraîner un fonctionnement indésirable de l'appareil

The ACE Gateway equipment operating in the 2.4 GHz band requires a separation distance of at least 20 cm. This distance must be maintained between the user and product when the product is operating.

3 TOOLS AND EQUIPMENT

The following tools are required for the installation:

- Screwdriver Philips PH2
- Sharp knife or nipper

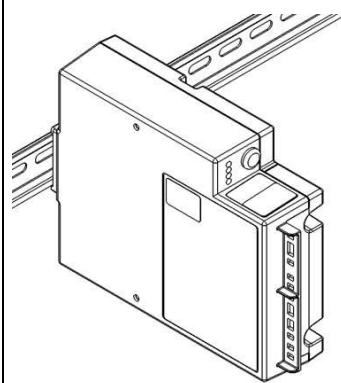
4 INSTALLING THE NORTHSTAR ACE® GATEWAY

- Mechanical Mounting
- Connecting power
- Configuration

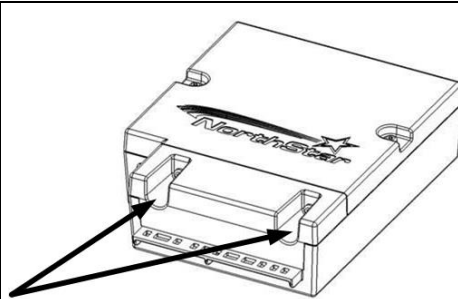
4.1 MECHANICAL MOUNTING

The NorthStar ACE® Gateway must be installed within Bluetooth range of the NorthStar ACE® batteries.

The NorthStar ACE® Gateway snaps on a DIN rail.

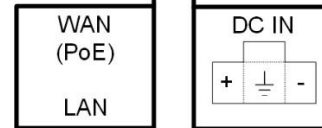
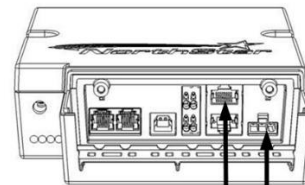


4.2 CONNECTING POWER



Remove the screws in the front of the NorthStar ACE® Gateway (see picture).

Use a sharp knife or a nipper to cut out recesses for the cables, before tightening the screws after connecting the power.



The DC input must be protected by a 1A fuse

4.3 CONFIGURATION OF THE NORTHSTAR ACE® GATEWAY

The NorthStar ACE® Gateway is configured via the NorthStar ACE® Site Smartphone app, available for most Android and Apple devices.

For more detailed information, <https://www.northstarbattery.com/ace>.

DC input Voltage	42-56VDC
Power consumption	0.27A/15W
Operating temperature	-40°C to +70°C (+55°C with modem)
Installation requirements	Weather protected
IP class	IP42