netfeasa IoTPASS Multi Purpose Monitoring and Security Device User Manual

netfeasa
Intelligent Connectivity

IoTPASS
SNAP, SPIN - SECURE

IoTPASS User Manual

Contents

Overview

This document describes the installation, commissioning and verification procedure for the IoTPASS device as used on an intermodal dry container.

IoTPASS
The IoTPASS is a multi-purpose monitoring and security device. Once installed, the location and movements of the host equipment will be transmitted from the device to Net Feasa's IoT Device Management Platform – EvenKeel™.
For standard intermodal dry containers, IoTPASS is fitted into the corrugated grooves of the container and clamped onto the locking rod. In addition to location and movement data, any open/close door events, and container fire alarms, are transmitted from the device to Net Feasa's IoT Device Management Platform – EvenKeel™.
The IoTPASS is powered by a rechargeable battery within the enclosure, which is charged using the solar panels on the front face.

Equipment Included
Each IoTPASS is supplied with a pack containing the following:

- IoTPASS with backplate
- 8mm Nut Driver
- 1 x Tek screws
- 3.5 mm HSS drill bit (for pilot hole)

Tools Required

- Battery drill or impact driver
- Cloth & water – To clean surface of container if necessary

A. Preparation for Installation

Step 1: Prepare the Device
Remove the IoTPASS from its packaging.
If the corrugation is of the shallower container specification, remove the back spacer from the device.
Note: Device is in 'Shelf Mode'. The device will not report until it has been taken out of shelf mode. To take the device out of shelf mode, remove the 4 pins on the clamp. Rotate the clamp 90° clockwise. Hold for 30 seconds and then return it to its original position. Ensure to put the 4 pins back in place after waking the device from shelf mode.
Step 2: Position the Device
Position the device: The device should be installed within the top corrugation of the right container door, with the clamp fitted onto the inside locking rod.
Inspect the mounting area: Inspect the surface whereupon the IoTPASS is to be installed.
Ensure that there are no major deformations such as dents on the container face.
With a damp cloth, clean the surface upon which the device shall be mounted. Ensure that there is no residue, foreign objects or any other items that may influence the securing of the device.
Step 3: Prepare the installation equipment
Cordless Drill, HSS drill-bit, Tek screw and 8mm nut driver

B. Installation

Step 1: Align the IoTPASS to container face
On the top corrugation, make sure that the back of the IoTPASS is aligned with the inside of the corrugation, then snap the IoTPASS onto the locking rod.
Step 2: Drill into container face
Spin the IoTPASS device into the corrugation of the container. Once the IoTPASS device is in place it can be secured by drilling a pilot hole. Drill directly into the container, ensuring that you are not drilling at an angle. Drill through the container so that there is a hole in the container door.
Step 4: Secure the Device
Fit the supplied 8 mm hex socket head securely into the drill. Install the Tek screw, ensuring that the enclosure is secured well onto the surface of the container, while also ensuring that there is no major damage caused by the screw on the plastic enclosure.
Note: It is very important to remove the 4 pins from the clamp once the device has been secured to the container. If these pins are not removed the device will not be able to detect door events.
SNAP the IoTPASS onto the locking rod

SPIN into the door corrugation

SECURE by drilling into place

C. Commissioning and Verification

Step 1: Commissioning
Using a smartphone, take a picture of the IoTPASS device serial number (on the right-hand side), and a picture of the container showing the container ID, then send an email to **support@netfeasa.com**. This process is needed so the Net Feasa support team can associate the device with the container and have that image for anyone who logs in to the visualization platform.
Step 2: Verification
Login to the visualization platform with your username and password. If you are unsure, please email **support@netfeasa.com** or login to the Net Feasa support portal.

Packaging, Handling, Storage and Transportation Storage

Store in an area where there are no other specific storage hazards. Ensure that the storage area is cool, dry, and well ventilated.
The IoTPASS is packaged in a cardboard box, as seen in the image below. A cardboard box is supplied, with 1x IoTPASS device and supporting installation kit per box. It is wrapped in a Bulbblewrap sleeve. Each IoTPASS is separated by a Styrofoam cushion, to prevent damage.
Do not ship any IoTPASS device in any packaging other than the original packaging.
Shipping in another type of packaging can result in damage to the product, resulting in a void in the warranty.

Regulatory Information
For regulatory identification purposes, the product is assigned a model number of N743.
Marking labels located on the exterior of your device indicate the regulations that your model complies with. Please check the marking labels on your device and refer to the corresponding statements in this chapter. Some notices apply to specific models only.
FCC
Federal Communication Commission Interference Statement
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 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.
USA Contact Information
Please add address, phone and email information
RF Exposure Information
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..
You are cautioned that changes or modifications not expressly approved by the party responsible for compliance

could void your authority to operate the equipment.

2. IC

Canadian Department Of Communications

This device complies with Industry Canada's licence-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.

The device could automatically discontinue transmission in case of absence of information to transmit, or operational failure. Note that this is not intended to prohibit transmission of control or signaling information or the use of repetitive codes where required by the technology.

RF Exposure Information

3. CE

CE **Maximum radio frequency (RF) power for Europe:**

- Lora 868MHz: 22dBm
- GSM: 33 dBm
- LTE-M/NBIOT: 23 dBm

Products with the CE marking comply with Radio Equipment Directive (Directive 2014/53/EU) – issued by the Commission of the European Community.
Compliance with these directives implies conformity to the following European Standards:

- EN 55032
- EN55035
- EN 301489-1/-17/-19/-52
- EN 300 220
- EN 303 413
- EN301511
- EN301908-1
- EN 301908-13
- EN 62311/EN 62479

The manufacturer cannot be held responsible for modifications made by the User and the consequences thereof, which may alter the conformity of the product with the CE Marking

Declaration of conformity

Hereby, Net Feasa declares that the N743 is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

Safety

BATTERY WARNING! : Improperly replaced batteries may present a risk of leak or explosion and personal injury. Risk of fire or explosion if the battery is replaced by an incorrect type. Ensure batteries are installed correctly by following the instructions provided. Mistreated rechargeable batteries may present a risk of fire or chemical burn. Do not disassemble or expose to conducting materials, moisture, liquid, or heat above 75°C (167°F). A battery subjected to extremely low air pressure may resulted in an explosion or the leakage of flammable liquid or gas. Do

not use or charge the battery if it appears to be leaking, discolored, deformed, or in any way abnormal. Do not leave your battery discharged or unused for extend periods. Do not short circuit. Your device may contain an internal, rechargeable battery that is not replaceable. Battery life varies with usage. Nonoperational batteries should be discarded according to local law. If no laws or regulation govern, dispose of your device in a waste bin for electronics. Keep batteries away from children.

In no event will Net Feasa be liable for direct, indirect, special, incidental, speculative or consequential damages arising from the use or inability to use this product, service or documentation, even if advised of the possibility of such damages. In particular, the vendor shall not have liability for any hardware, software, or data stored or used with the product or service, including the costs of repairing, replacing, integrating, installing or recovering such hardware, software, or data. All works and materials supplied are provided “AS IS”. This information could contain technical inaccuracies, typographical errors and out-of-date information. This document may be updated or changed without notice at any time. Use of the information is therefore at your own risk. The vendor will not be liable for any injury or death arising from the use or misuse of this product or service.

Except where otherwise agreed, any disputes arising between the vendor and customer shall be governed by the laws of the Republic of Ireland. The Republic of Ireland shall be the exclusive venue for the resolution of any such dispute. Net Feasa’s total liability for all claims will not exceed the price paid for the product or service. Any modifications of any sort will negate warranties and may cause damage.

Pursuant to the WEEE EU Directive electronic and electrical waste must not be disposed of with unsorted waste. Please contact your local recycling authority for disposal of this product.

– End of Document –

Documents / Resources

	netfeasa IoTPASS Multi Purpose Monitoring and Security Device [pdf] User Manual IoTPASS Multi Purpose Monitoring and Security Device, Multi Purpose Monitoring and Security Device, Monitoring and Security Device, Security Device

References

- User Manual