USER MANUAL

# Port Server (NUPS2/4–H)

ascom

**COPYRIGHT**

© 2025 Ascom (Sweden) AB

The material in this manual is protected by copyright law and international treaties. It is intended to be used by Ascom employees and distributors. Our authorization is required for reproduction and / or distribution of any material herein to others.

**DISCLAIMER**

Ascom (Sweden) AB has taken due care in preparing this document including research, development and testing to ascertain the effectiveness of any programmes and data on electronic media which accompany this document. Ascom (Sweden) AB makes no guarantees as to the contents of this document and specifically disclaims any implied guarantees pertaining to fitness for any particular purpose. Ascom (Sweden) AB further reserves the right to make changes to the specifications of the programme and contents of this document without obligation to notify any person or organization of such changes.

**TRADEMARKS**

Microsoft® is a registered trademark of Microsoft Corporation. Adobe® and Acrobat® are registered trademarks of Adobe Systems Incorporated.

CH REP Ascom (Solution) AG, Gewerbepark Hintermättlistrasse, 5506 MÄGENWIL, Switzerland

CE

**ADDRESS**

Ascom (Sweden) AB
Grimbodalen 2
SE-417 49 Göteborg
Sweden
Phone: +46 31 55 93 00
Fax: +46 31 55 20 31
www.ascom.com

# Contents

**1 Intended Purpose** ..... **1**
**2 Caution and Notes** ..... **2**
**3 Port Server (NUPS2/4–H) Components** ..... **3**
3.1 NUPS2/4–H Module ..... 3
3.2 Device Label ..... 4
3.3 Symbols ..... 4
**4 Medical Device Smart Cable** ..... **6**
4.1 Medical Device Smart Cable NUMDSC-H ..... 6
**5 Maintenance and Disposal** ..... **7**
5.1 Modifications ..... 7
5.2 Calibration ..... 7
5.3 Cleaning ..... 7
5.4 Life Cycle ..... 8
5.5 Disposal ..... 8
**6 Preparations** ..... **9**
**7 Connecting the Medical Device Smart Cable** ..... **10**
**8 Intentional Disconnection of the Medical Device Smart Cable** ..... **11**
**9 Fault Conditions** ..... **12**
9.1 Unintentional Disconnection of a Medical Device Smart Cable ..... 12
9.1.1 Unplugged from the Port Server ..... 12
**10 Document History** ..... **13**

# 1 Intended Purpose

**Intended Purpose for NUPS2/4—H**

The Port Server (item number NUPS2/4-H) is intended to be used with the Medical Device Smart Cable (item number NUMDSC-H) to act as a communication endpoint between two external systems to send data.

The Port Server does not replace or alter the behavior of the connected external systems.

The Port Server incorporates both hardware and firmware, and may be used and installed in both non-clinical and clinical environments (i.e., close proximity of a patient). The Port Server is not intended to be used for diagnostic purposes, nor to come in physical contact with users or patients.

The Port Server is intended for use by professional personnel and relies on proper use, installation, and operation of the communication infrastructure of the facility.

# 2 Caution and Notes

**Caution**

**This product can expose you to chemicals including Antimony trioxide, which is known to the State of California to cause cancer, and Di-isodecyl Phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.**

**Caution**

**The Product must only be used by professional personnel qualified to understand its use.**

**Caution**

**Fire and explosion hazard. Do not operate the Ascom Port Server in the presence of a flammable anesthetic mixture with air, oxygen, or nitrous oxide; in oxygen-enriched environments; or in any other potentially explosive environment.**

**Caution**

**The operator must not touch any contact of the Port Server and the patient simultaneously.**

The Port Server may be connected to both medical and non-medical external systems to support communication between said systems. Some behaviors may be configured based on the external system's capabilities. Refer to the external systems' instructions for use regarding regulatory requirements, installation instructions, warnings, and alerts.

### FCC compliance

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

### CISPR 11 Compliance

The EMISSIONS characteristics of this equipment make it suitable for use in industrial areas and hospitals (CISPR 11 class A). If it is used in a residential environment (for which CISPR 11 class B is normally required) this equipment might not offer adequate protection to radio-frequency communication services. The user might need to take mitigation measures, such as relocating or re-orienting the equipment.

# 3 Port Server (NUPS2/4–H) Components

## 3.1 NUPS2/4–H Module

**Table 1 Port Server**

| Port Server, 2 ports. | Port Server, 4 ports. |
|---|---|
| | |

*Figure 1. Connection View*

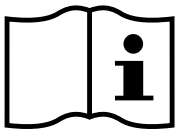
1. SafeConnect socket 1
2. SafeConnect socket 1 - Status LED
3. SafeConnect socket 2
4. SafeConnect socket 2 - Status LED

## 3.2 Device Label

NUPS2/4-H

Product Label

## 3.3 Symbols



Read the manual for more information.

Pay particular attention to statements referred to by a note.

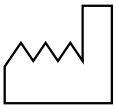
**Caution:** Use extreme caution and follow instructions carefully.

European Union Conformity Mark.

UK Conformity Mark

AU Regulatory Mark.

UL Conformity Mark



Date/Time of Production

Name/Address of Manufacturer

Serial Number

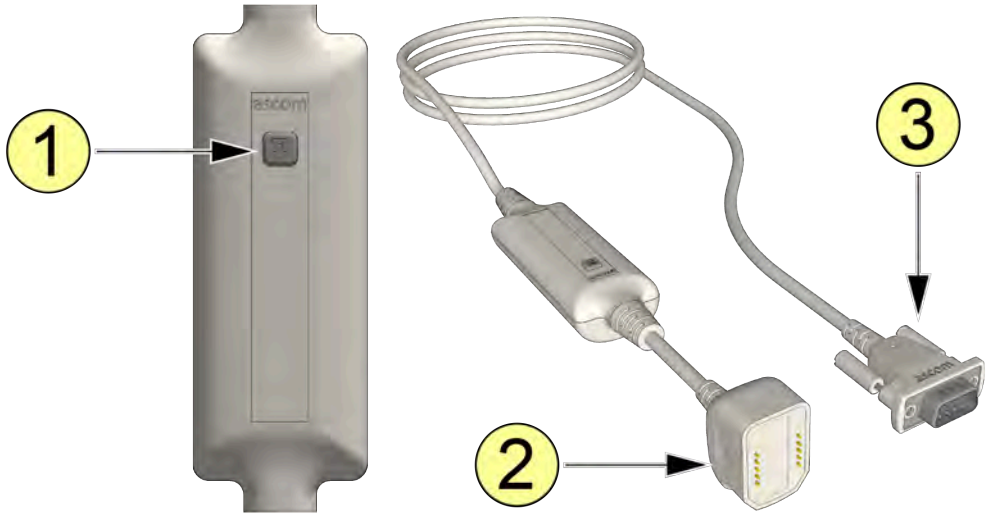
Reference manufacturer catalogue number

Waste Electrical and Electronic Equipment Directive (WEEE Directive)

Medical Device Smart Cable - Disconnect button.

# 4 Medical Device Smart Cable

## 4.1 Medical Device Smart Cable NUMDSC-H




1. Disconnect button.
2. Ascom SafeConnect Plug.
3. Sub-D connector to Medical Device

The Medical Device Smart Cable (NUMDSC-H) is an accessory device used to connect the Port Server (NUPS2/4-H) to an external device. Refer to the cable data sheet for information on limitations and use.

# 5 Maintenance and Disposal

## 5.1 Modifications

Any modification to the NUPS2/4–H module or the NUMDSC-H Medical Device Smart Cable is strictly prohibited.

If modifications to the NUPS2/4-H module are needed (e.g., change between 2 ports vs 4 ports), they must be performed by a qualified or trained technician.

## 5.2 Calibration

Neither the Module NUPS2/4–H, nor the Medical Device Smart Cable NUMDSC-H need any calibration.

## 5.3 Cleaning

**Caution**

**Never submerge the Port Server or Medical Device Smart Cable.**

### Cleaning the housing

- Slightly moisten a lint-free eyeglass-cleaning cloth or soft microfiber cloth with an approved cleaning solution.
- Use the moist cloth to gently clean the Medical Device Smart Cable, if present.
- Use another soft, dry cloth to dry the surface of the housing.

### Approved cleaning products

- CaviWipes (13-1100)
- Cidex
- Clorox Disinfecting Wipes (bleach free)
- Clorox Germicidal Wipes (446035309)
- Dispatch Disinfectant Wipes
- Ecolab Achtichlor Plus
- Ecolab Asepti-Wipe II (Product # 61027330)
- Medtrol Gluco-Chlor Bleach (GC110)
- PDI Sani-Cloth AF (Product #P84372) (white canister)
- PDI Sani-Cloth AF3 (P13872) (gray canister)
- PDI Sani-Cloth Bleach (H24795) & P54072 (orange canister)
- PDI Sani-Cloth HB (Product # Q08472) (green canister)
- PDI Sani-Cloth Plus (Product # Q89072) (red canister)
- Staphine
- Virkon S
- 10% bleach/water solution

## 5.4 Life Cycle

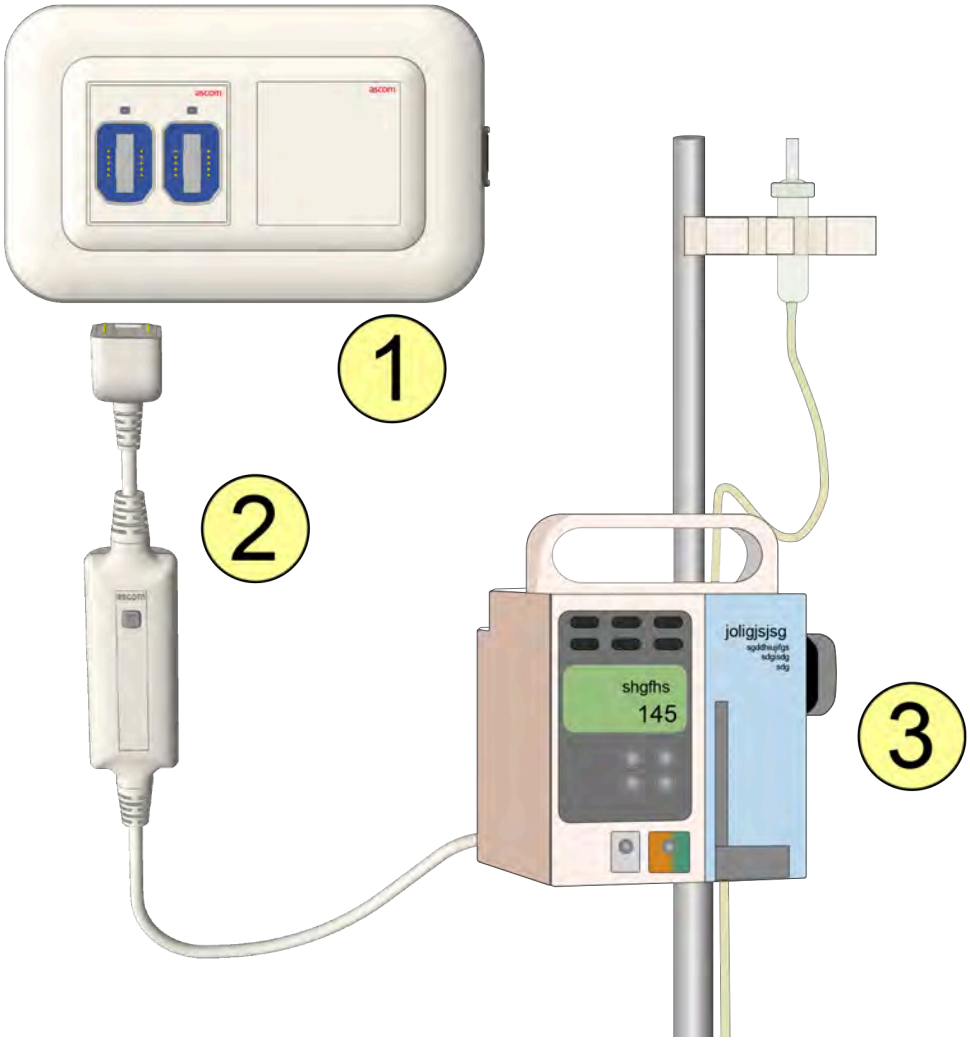
The NUPS2/4-H Port Server has an expected service life of 15 years.

## 5.5 Disposal

The Port Server NUPS2/4–H and the Medical Device Smart Cable NUMDSC-H comply with the relevant standards for electronics and can be safely disposed of as electronic waste at the end of the life cycle.

# 6 Preparations

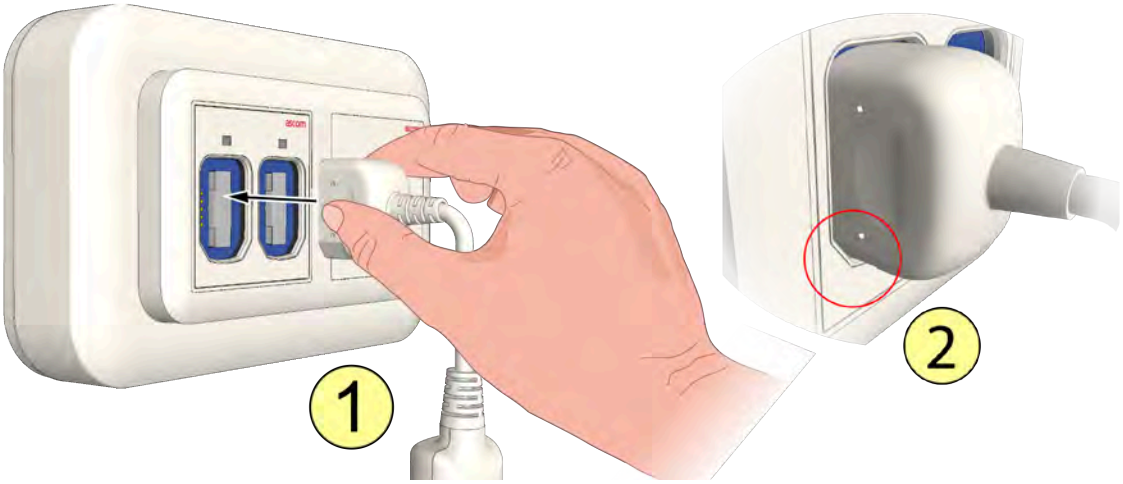
When installing the NUPS2/4–H make sure that an Ascom representative connects the Medical Device Smart Cable NUMDSC-H. The NUPS2/4-H and NUMDSC-H should be installed in accordance with the expectations of any connected systems. The Ascom representative should consult the hospitals qualified biomedical or medical engineer regarding the technical details of the medical device.




1. Port Server (NUPS2/4–H)
2. Medical Device Smart Cable (NUMDSC-H)
3. Primary Medical Device

# 7 Connecting the Medical Device Smart Cable

After the Sub-D connector of the Medical Device Smart Cable is plugged into the Medical Device, plug the SafeConnect plug into one of the sockets of the Port Server.



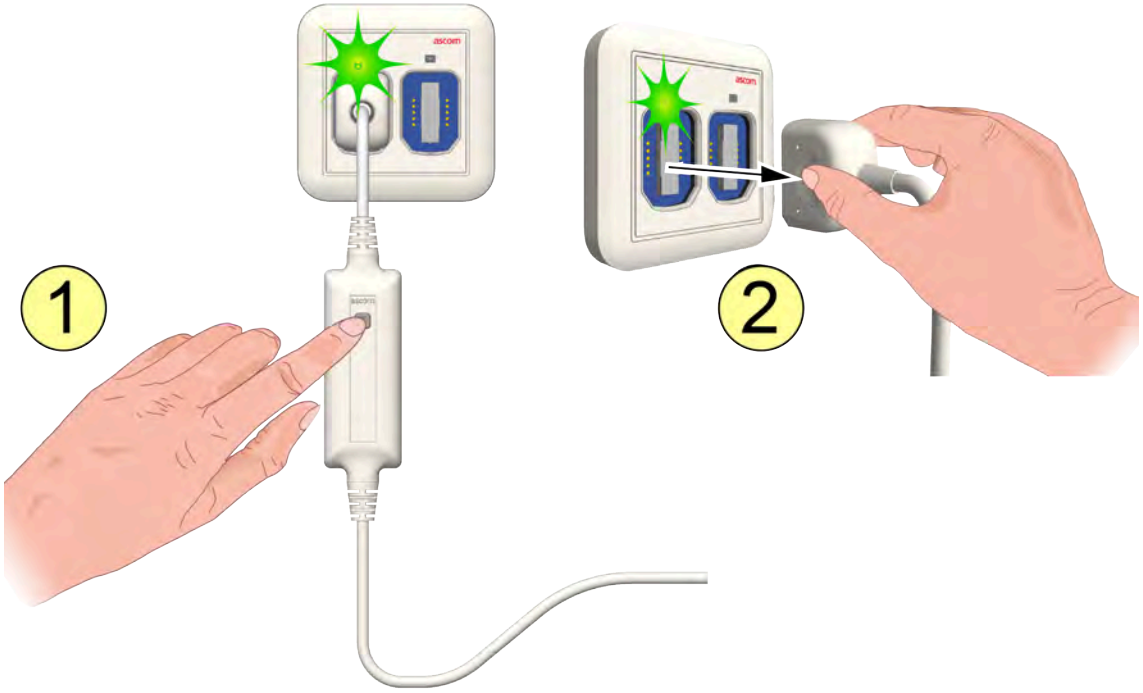

1. Plug the cable into one of the available sockets.
2. To ensure a proper connection, pay attention to the orientation of the SafeConnect plug and be aware that the plug is able to fit into the socket only one way.

When correctly connected, the LED above the SafeConnect socket will light up for three seconds.

After three seconds the LED dims to its back-lit level.

# 8 Intentional Disconnection of the Medical Device Smart Cable

This is the correct way to disconnect the Medical Device Smart Cable.



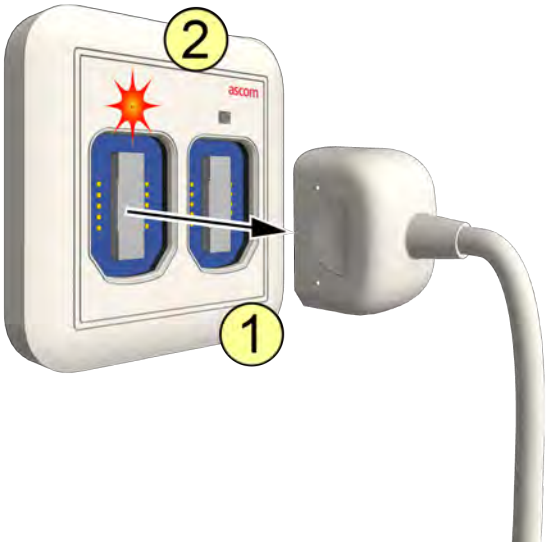

1. Press the `Disconnect` button of the Medical Device Smart Cable until the Port Server's socket's LED illuminates green.
2. Within three seconds remove the plug of the Medical Device Smart Cable you want to disconnect from the Port Server.

# 9 Fault Conditions

## 9.1 Unintentional Disconnection of a Medical Device Smart Cable

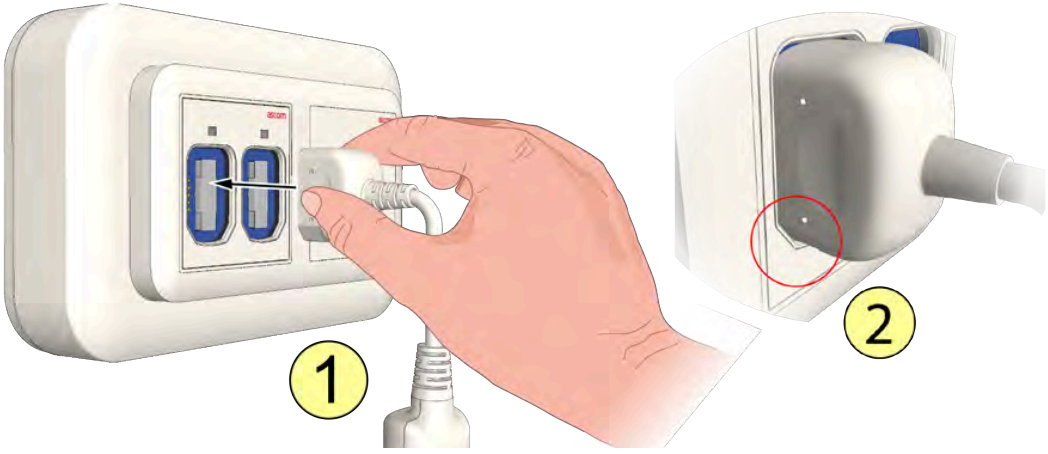
A Medical Device Smart Cable can get disconnected unintentionally by the plug being pulled out of the Port Server.

### 9.1.1 Unplugged from the Port Server




1. One of the plugs attached to a Medical Device Smart Cable gets unplugged from the Port Server.
2. The LED above the SafeConnect socket will show signaling according to the configuration.

**Reconnecting an Unintentionally Unplugged Medical Device Smart Cable**




1. Reconnect the Medical Device Smart Cable.
2. To ensure a proper connection, pay attention to the orientation of the SafeConnect plug and be aware that the plug is able to fit into the socket only one way.

The LED above the SafeConnect socket will light up for three seconds.

After three seconds the LED dims to its back-lit level.

# 10 Document History

| Version | Date | Description |
|---|---|---|
| A | 17 April 2025 | First Release. |
| | | |

**Ascom (Sweden) AB**

Grimbodalen 2

SE–417 49 Göteborg

Sweden

Phone +46 31 55 93 00

www.ascom.com

TD 93725EN / 17 April 2025 / Ver. A