USER MANUAL

NBS1200

FOREWORD

Thank you for choosing NBS1200.

INSTALLATION. *We recommend you read this guide carefully. It contains all the information you need to install your NBS1200.*

USE. *Once the NBS1200 is installed and equipped with your application(s), you should use "user guide" specific to your application(s).*

WARRANTY. SAFETY. *In order to preserve your warranty coverage and to ensure compliance with safety instructions, your NBS1200 must not be disassembled by anyone other than the manufacturer or a person approved by the manufacturer. The manufacturer will not be held liable in the event that the NBS1200 is disassembled by a person not approved by the manufacturer.*

CONTENTS

MANUFACTURER'S DECLARATION OF CONFORMITY

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."

1 SAFETY INSTRUCTIONS

In accordance with legal safety requirements, any person working on the NBS1200 is required to have read and to comply with the following safety instructions:

A - Connection to the electrical power system

This section does not concern NBS1200 devices connected via a USB port (in this case the NBS1200 is powered via the USB connection and not via the mains supply).

You should provide a socket for the incoming power supply complying with the following points:

- Socket installed near the equipment and easy to access;

- Socket meeting the standards and regulations in force; the NBS1200 may be connected to an electrical power system with the IT neutral system (ground impedance according to EN 60950).

B - To turn off your NBS1200 peripheral

- If it is powered by an adapter via an RS232 cable, disconnect the adapter from the electrical power system.

- If it is self-powered via a USB cable, disconnect the USB cable.

C - Secondary reader access cover (SAMs) The SAM access cover, located at the back of the terminal (see section "SAM installation/removal", must be in place during the device's normal use.

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2 UNPACKING PRODUCT PACKAGE

Keep the NBS1200 packaging.
It should be reused for any transportation.

The NBS1200 package contains:

- The NBS1200 peripheral,
- Installation instructions,
- If necessary, a disconnectable power adapter depending on the model supplied.

(The power adapter supplied has been specifically designed for the NBS1200. Do not use any other unit.)

(Using a power adapter having apparently identical voltage/current characteristics can still damage the terminal).

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3 CONNECTIONS

Please refer to one of the following sections giving the connection corresponding to your configuration.

3.1 CONNECTION TO A USB PORT

The equipment's D port must be a USB 1.1. port at the least.
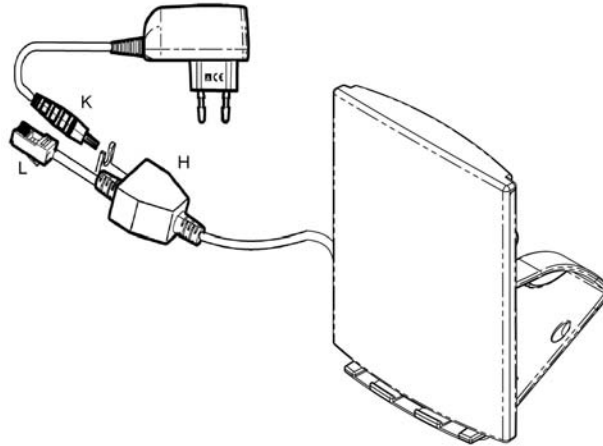*The equipment's D port must deliver a minimum of 500 mA in steady-state regime.*
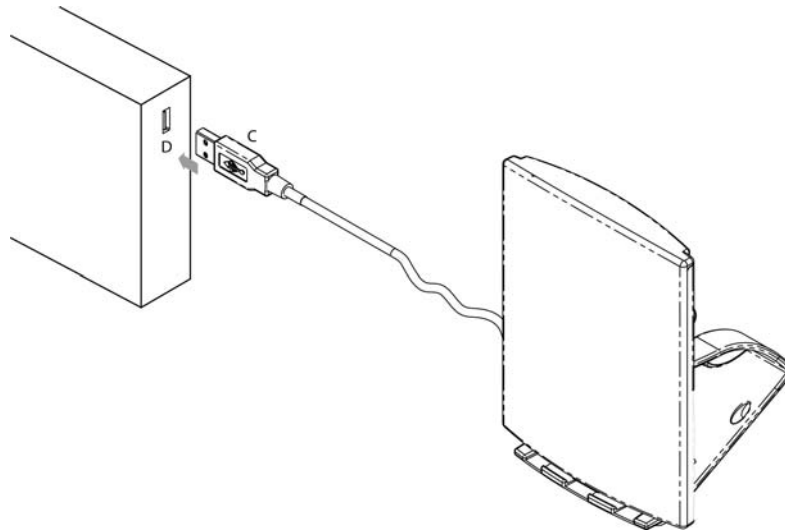
Connect the end of the USB cable (port **C**) to the equipment (port **D**).

Once installed, **leave the NBS1200 connected at all times**.

3.2 CONNECTION TO AN RS232 PORT RJ11 TYPE

Safety instructions reminder:
Select a power supply socket that complies with the general safety instructions given in section 1 of this document.
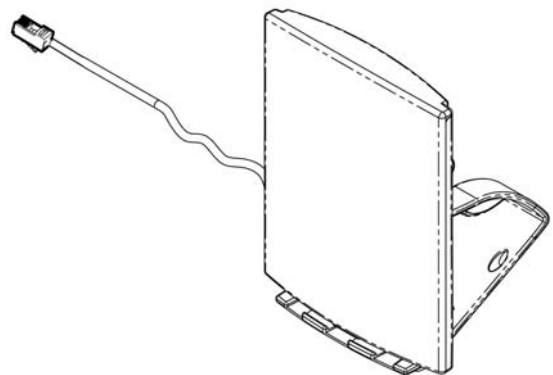

Connect the power adapter (jack **K**) to the connector **H**.
Connect the other end of the RS232 cable (port RJ11 **L**).
Connect the power adapter to the incoming power supply socket.
Once installed, **leave the NBS1200 on permanently**.

Socket H: These links establish SELV circuits (Safe Extra Low Voltage according to standard EN 60950) and they must be interconnected with equipment whose interfaces are powered by similar circuits.
Levels: RS232 / V28.

3.3 CONNECTION TO A POWER-SUPPLIED RS232 PORT RJ11 TYPE

*The equipment's port must deliver a minimum of 500 mA in steady-state regime.*

Connect the end of the cable to the equipment.

Once installed, **leave the NBS1200**
connected at all times.

3.4 CONNECTION TO AN RS232 PORT DB9 TYPE

Safety instructions reminder:
Select a power supply socket that complies with the general safety instructions given in section 1 of this document.
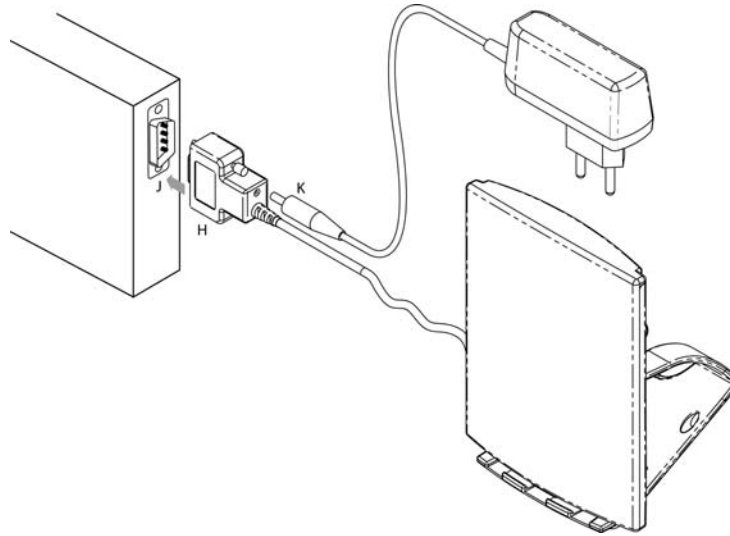
Connect the power adapter (jack **K**) to the connector **H**.
Connect the other end of the RS232 cable (port **H** to port **J**). **Screw** connector **H** firmly to the equipment.

Connect the power adapter to the incoming power supply socket.

Once installed, **leave the NBS1200 on permanently**.

Socket H: These links establish SELV circuits (Safe Extra Low Voltage according to standard EN 60950) and they must be interconnected with equipment whose interfaces are powered by similar circuits.
Levels: RS232 / V28.

4 SAM INSTALLATION/REMOVAL

4.1 SAM ACCESS (Security Access Module)

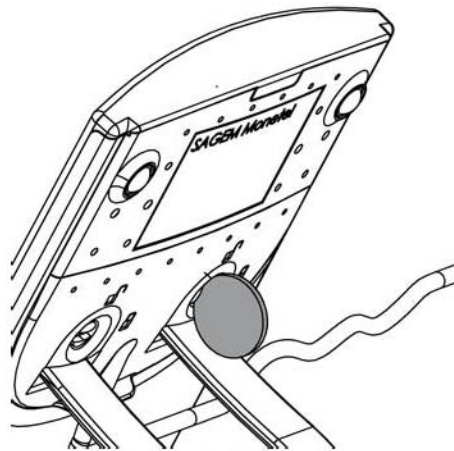A SAM module is installed on a "SAM support"
The SAM supports are located in a housing accessed via an access cover on the back of the device (figure opposite).
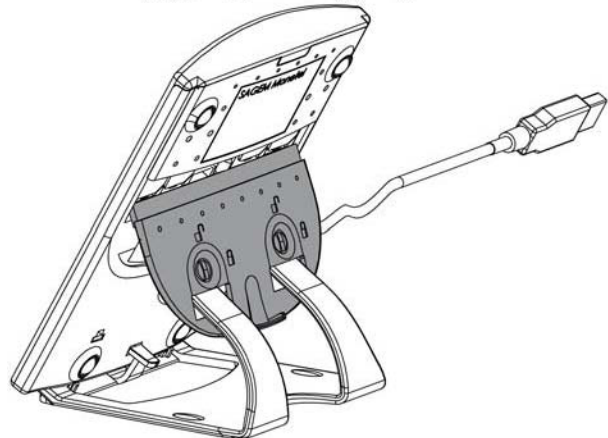
4.2 OPENING THE SAM SUPPORT ACCESS COVER

Take care when opening the cover: Turn the NBS1200 off.

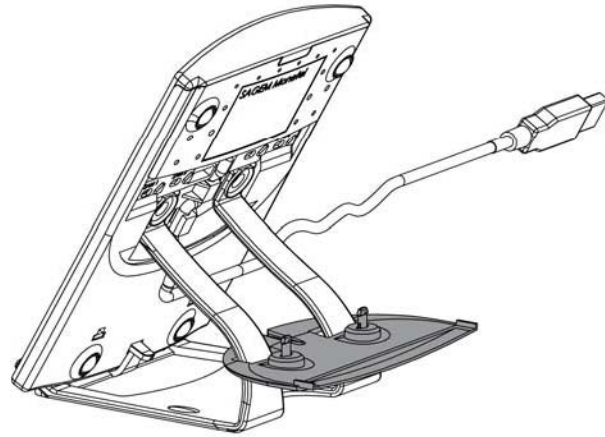To open the SAM support access cover

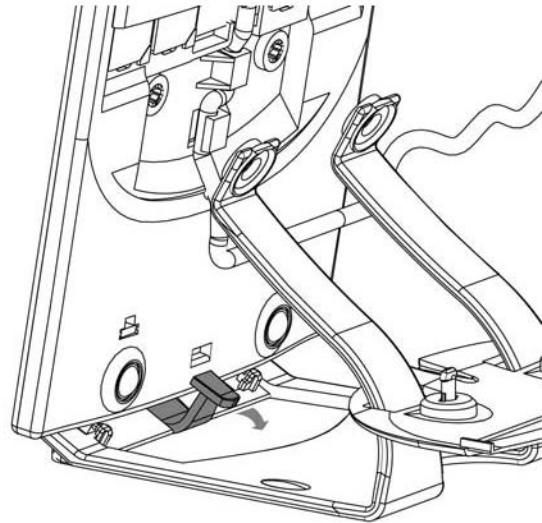1. Set the quarter-turn notches to the vertical position

2. Flip the access cover downwards (see figure opposite)

3. Slide the access cover down the frame to clear it fully

4. Unclip the base of the support in the direction of the arrow (see figure opposite)

4.3 INSTALLING A SAM IN ITS SUPPORT

To install a SAM:

1. If necessary, note the No. of the SAM support to be fitted (see numbers 1, 2, 3, 4 engraved on the cover).

2. Introduce the SAM into the right location taking care to place its corner cut as shown in the diagram opposite; the position of the corner cut is given on the cover.
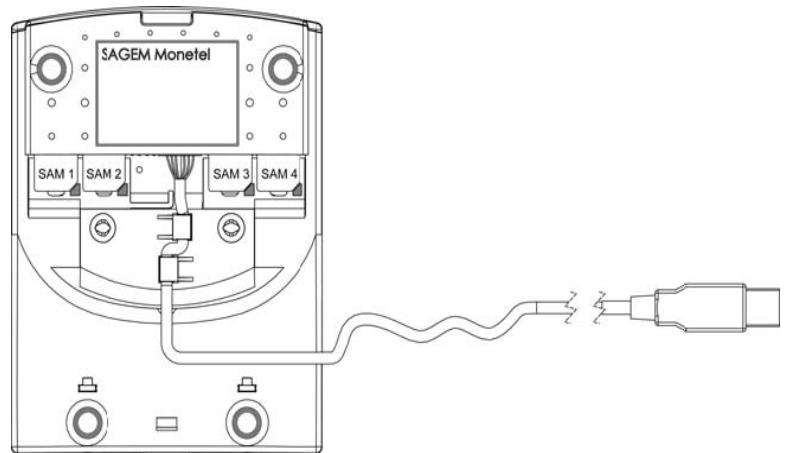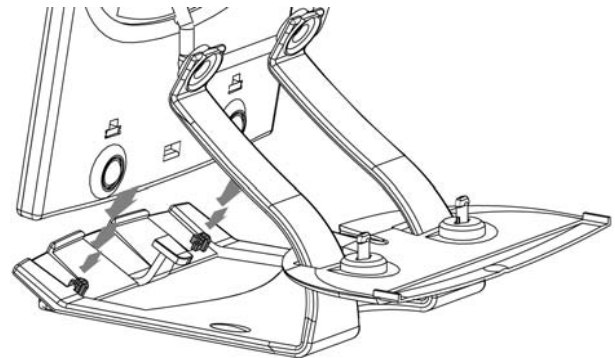
4.4 CLOSING THE SAM SUPPORT ACCESS COVER
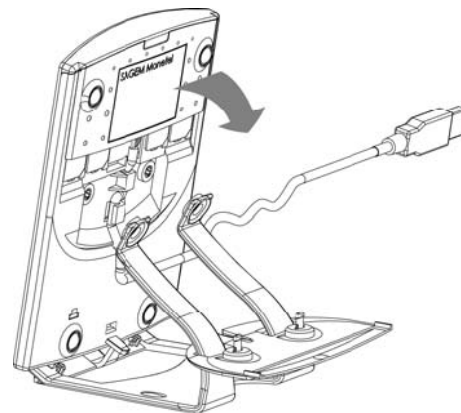
To push up and close the SAM support access cover

1. Slide the SAM access cover along the frame as shown in the figure opposite
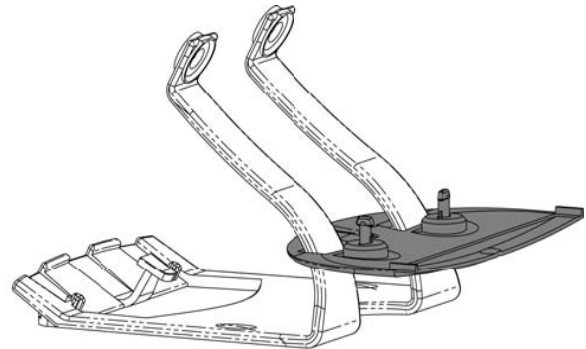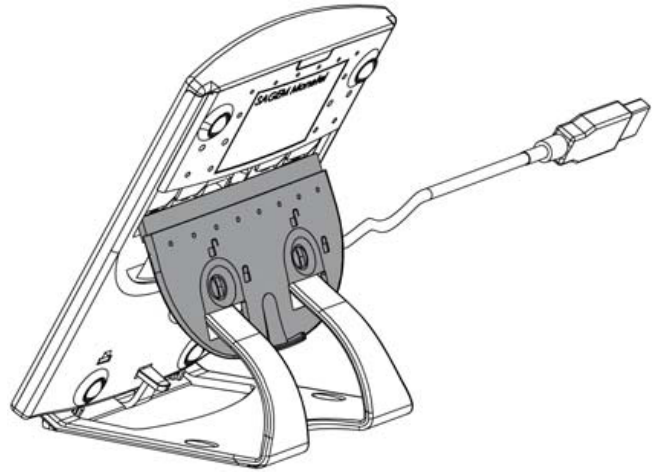
2. Place the unit on the support studs as shown by the arrows in the figure opposite.
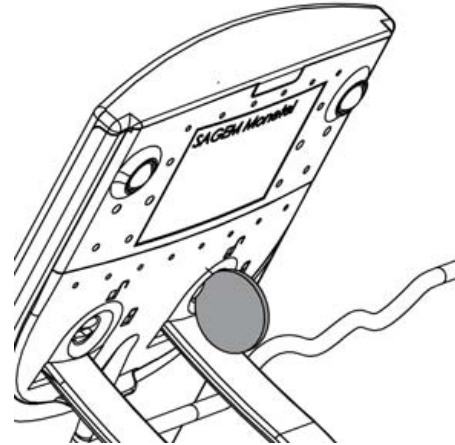
3. Snap in the support by tilting the unit against it

4.   Fix the top of the SAM access cover into the guard as shown in the figure opposite

5.   Close the access cover, and then move the quarter-turn notches back to the horizontal position, while pressing the access cover down firmly.

5 NBS1200 SUPPORT

5.1 DISASSEMBLING THE SUPPORT

Follow the instructions given for SAM removal (section 4.2)

5.2 ASSEMBLING THE SUPPORT

Follow the instructions for closing the SAM support access cover (section 4.4)

6 DAILY USE
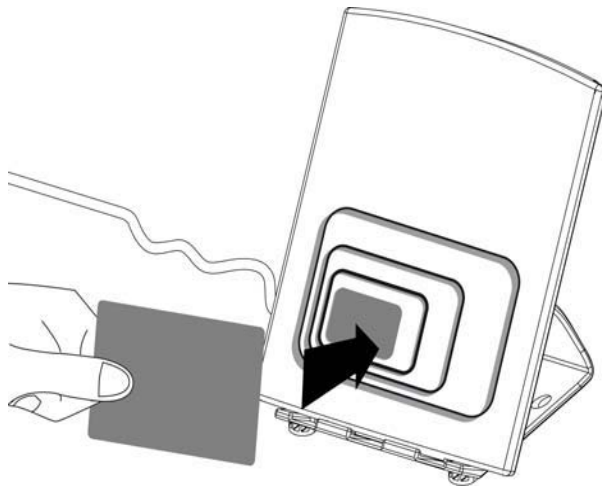
Bring the card firmly up to the active zone. Keep the card close to the target during the transaction

Once installed, the NBS1200 is designed to be left switched on permanently. You can rest the card on the edge of the support.

7 MAINTENANCE

7.1 CLEANING THE OUTSIDE OF THE DEVICE

Turn the device off following the safety instructions.

Use a soft cloth very lightly moistened with soapy water to clean the outside of the device (do not use abrasive or corrosive products, or products containing solvents).

8 TRANSPORTATION AND STORAGE

- Use the original packaging for device transportation and storage.
- If you should have to send the NBS1200 back to the manufacturer, remember to also send back any power adapter supplied with the device.

9 NBS1200 : CHARACTERISTICS

Physical characteristics
NBS1200

Weight: About 240 g
Dimensions: About 109x98x136 mm (L x W x H)

Cable length

RS232:   About 1.80 m
USB: About 1.80 m

Power adapter (depending on the model)

Weight :   About 100 g
Cable length: About 3 m

Standards

See Annex for the "CE" marking of conformity.

Conditions of use

Power supply via power adapter connected to the electrical power system

Class II equipment

Electrical power system: 100-240 Vac; 50-60 Hz
Consumption : 150 mA
Power adapter: 2-pole socket, IEC 83-C5 - European standard

Power supply via USB link

Voltage: 5V ± 5%
Current: 500 mA

Operating conditions

Room temperature: +5°C, +45°C
Max. relative humidity: 85% at +40°C

Storage conditions

Storage temperature: -20°C, +55°C
Max. relative humidity: 85% at +55°C

ANNEX

ANNEX 1 : CONFORMITY WITH "CE" STANDARDS

The **CE** marking attests that the product:

    NBS1200

meets the provisions of:

− European Directive - **ElectroMagnetic Compatibility (EMC) Directive** 89/336/EEC dated 03/05/89 modified by amendments 92/31/EEC dated 28/04/92 and 93/68/EEC dated 22/07/93
− European Directive - **Low Voltage Directive** 73/23/EEC modified by amendment (93/68/EEC) dated 22/07/93

and complies with the following harmonized standards:

EN 60950-1:   Safety of Information Technology Equipment, including electronic office equipment. December 2001 edition

EN 300 330:   Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Device (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9kHz to 30MHz (2001/06)

EN 301 489:   Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services (2002/08)

Year of CE marking: 2006