User's Manual
IP-EXT4

CONTENTS

INFORMATION AND RECOMMENDATIONS

CE

- This product complies with the requirements of the 1999/5/ CEE R&TTE Directive, 2004/108/EC Directive on electromagnetic compatibility and 2006/95/EC on low voltage, insofar as the product is used correctly.

- **Cabling recommendations:** the cables used to connect readers, the network and other peripherals must be installed in accordance with the instructions for Level 2 (protected environment) of standard NF EN 61000-4-4.

- **This product must be installed by an approved company.** Incorrect installation and use may result in electric shock or fire. Before installation, read the technical information and comply with the recommendations for assembling the product.

TECHNICAL CHARACTERISTICS

1) IP-EXT4

Maximum power consumption .... 400 mA
Supply voltage .... 9 – 14VDC
Weight with housing .... 200 g
Housing dimensions .... 157 x 120 x 30 mm
Operating temperature .... - 20°C to + 50°C
Control relay .... 1A / 12V – 1A / 24V

2) PROTECTION

The module is fitted with a 5x20 1A fuse on the 12V input inside the housing. If the power light does not come on when the module is switched on, check this fuse.

CONNECTING A DEVICE USING THE WIEGAND OR CLOCK & DATA PROTOCOL
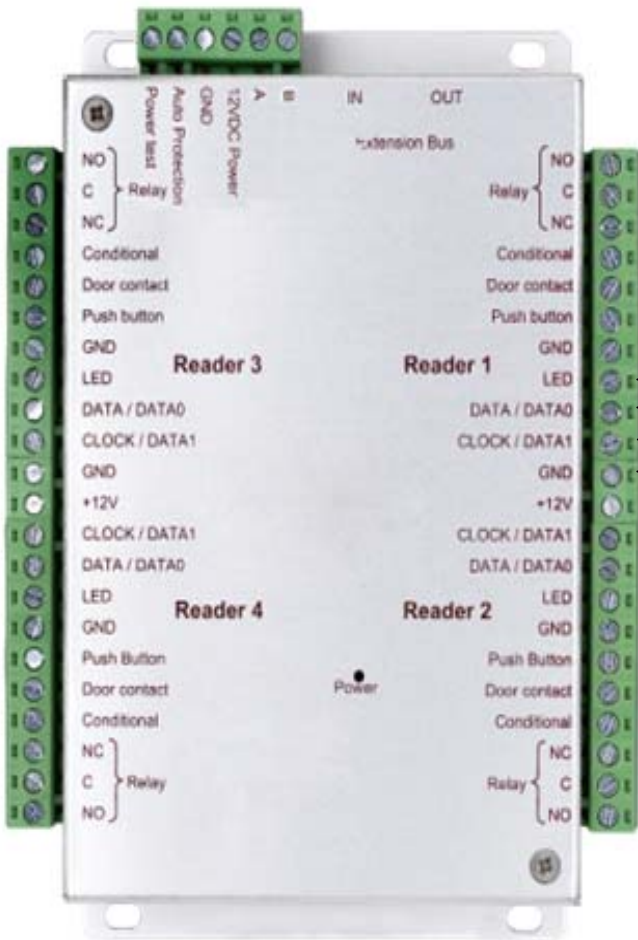
WIEGAND:
- o *Proximity readers (HID, STID, DESTEIR, INDALA, etc.)*
- o *Key pads (XPR, etc.)*
- o *Biometric readers (SAGEM, etc.)*
- o *Radio receivers (TECHNO EM, etc.)*
- o *DALLAS (via interface)*

CLOCK & DATA:
- o *Magnetic strip readers*
- o *Barcode readers*
- o *Proximity readers*
- o *Radio receivers*

Information:

5 conductors (3 pairs recommended)

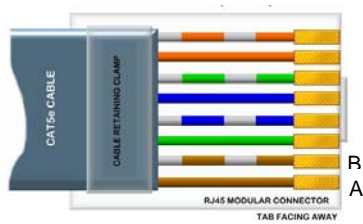Max. distance: 150 m

Cable type: 0.6 mm (SYT recommended)

Shield: Optional

*Warning: If you use an external power supply for your proximity readers, take care to **connect the various earths to that of the module**.*

Warning: Do not install the cables near other high voltage or high current cables, particularly 220V or higher.

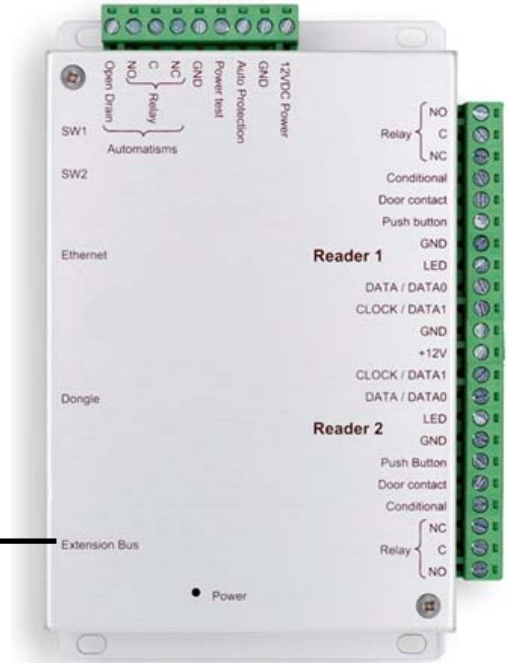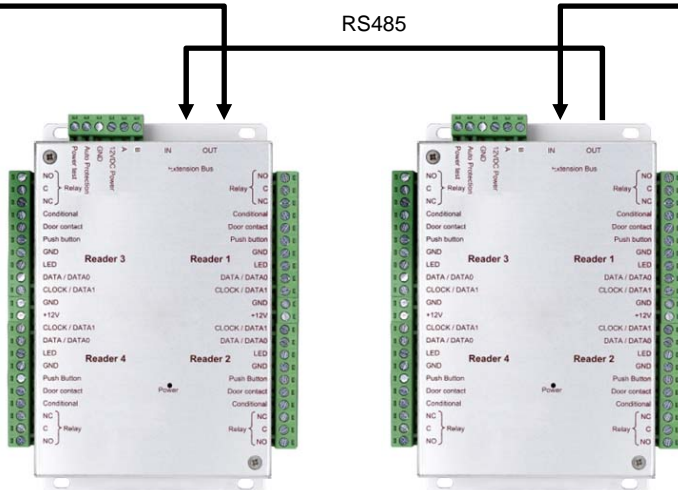**Note:** Each reader can have different technology (e.g. Reader 1 using Wiegand, Reader 2 using Clock & Data).

CONNECTION TO THE IP-12 UNIT

IP-12	IP-EXT4
A	A
B	B

Up to 10 modules per IP-12

RS485

You can also use the A and B terminals on the IP-EXT4 modules to connect an RS485 bus.
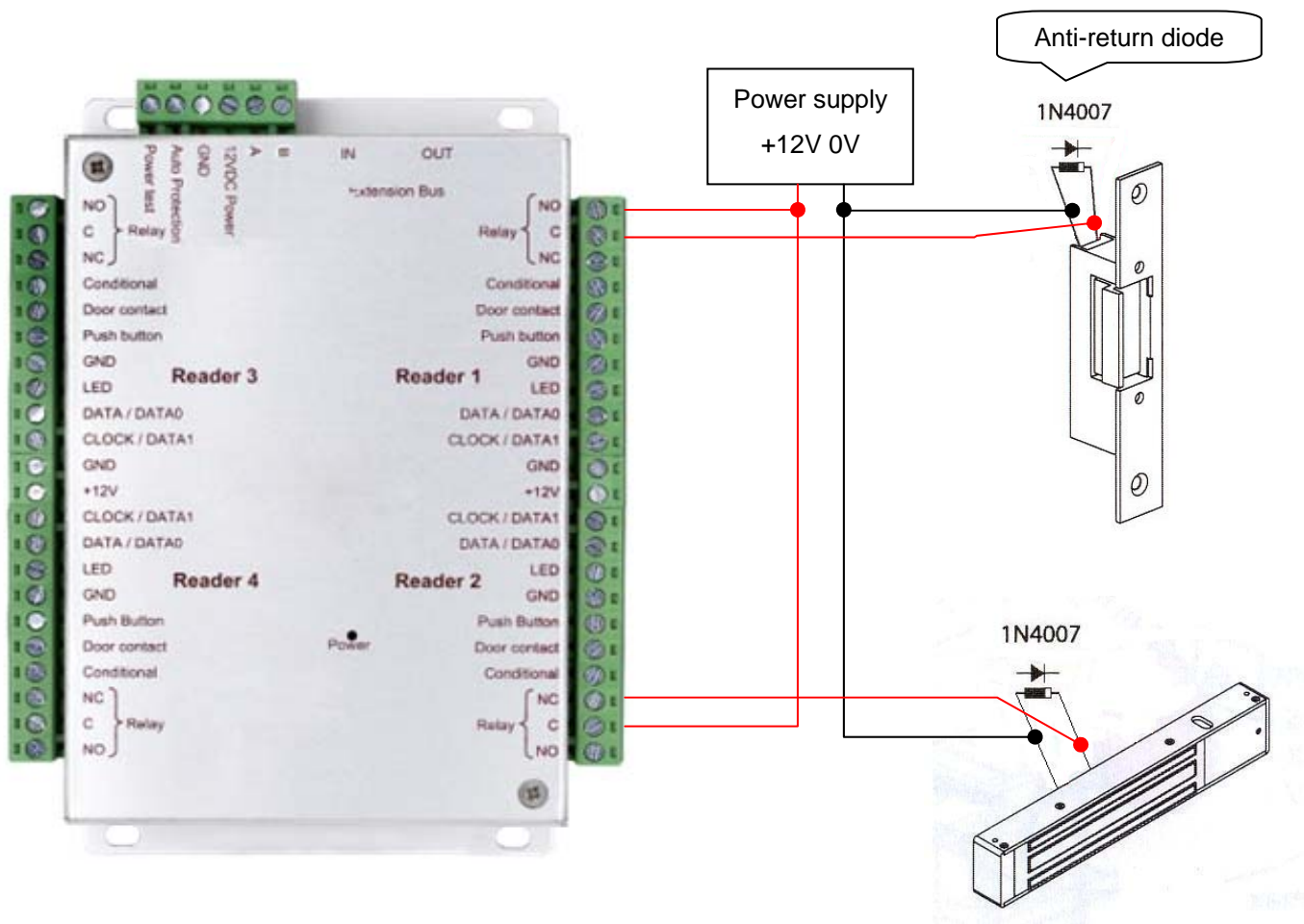
Information:

2 conductors (2 pairs recommended)

Max. distance: 750 m

Cable type: 0.6 mm (SYT recommended)

Warning: Do not install the cables near other high voltage or high current cables, particularly 220V or higher. Use the same pair for the A and B lines.
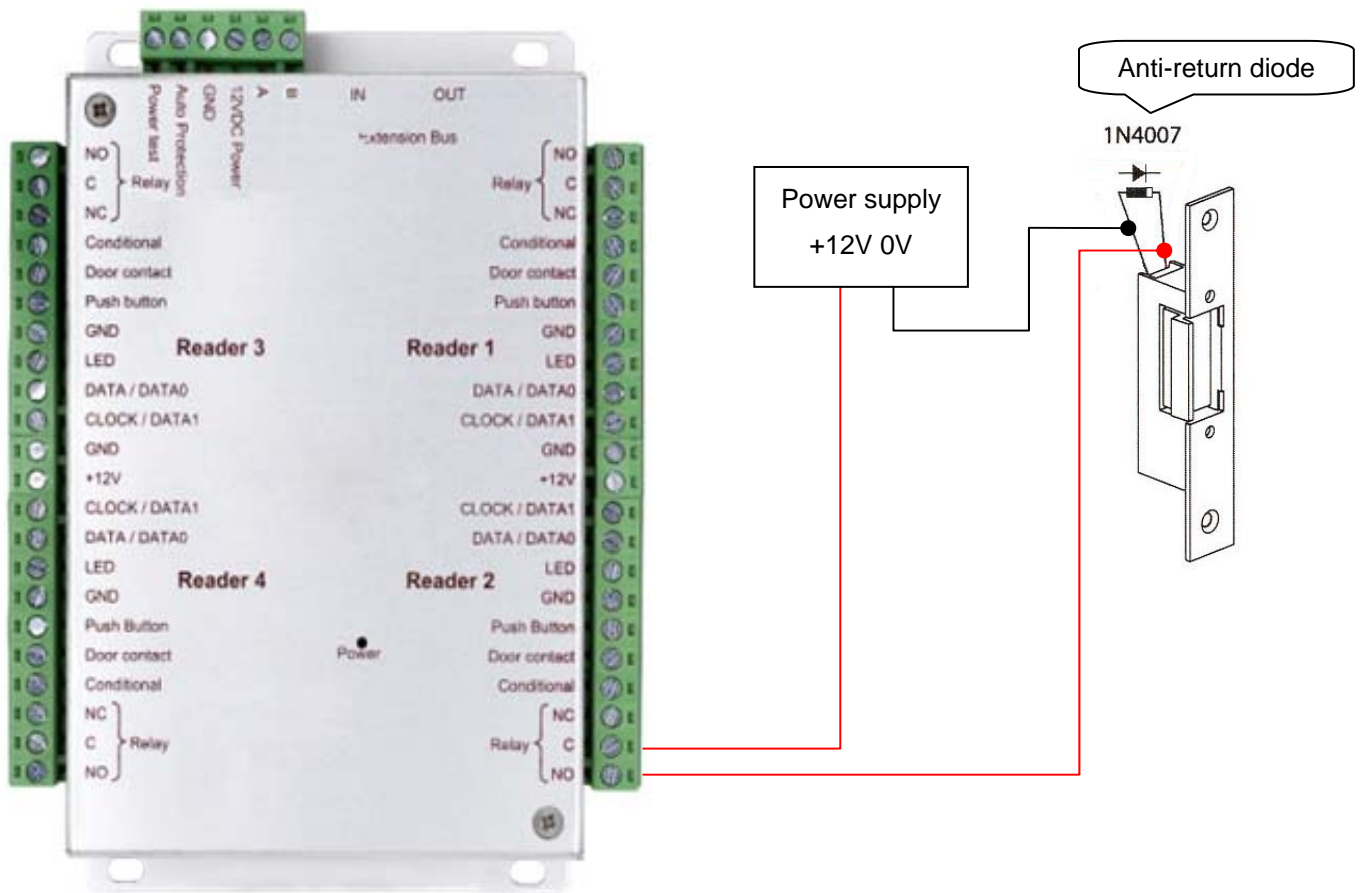
CONNECTING A POWER LOSS BOLT AND AN ELECTROMAGNETIC DOOR LOCK OPERATING ON POWER LOSS

Warning: In order to prevent random malfunctions that may interfere with proper system operation due to back-currents, it is imperative to use and connect the anti-back-current diodes supplied with the unit in compliance with the cabling diagram above.

Even when using an additional uninterruptible power supply for locking separate to that of the unit, it is obligatory to follow the above cabling diagram.

CONNECTING A STANDARD POWER-ON DOOR LOCK

Warning: In order to prevent random malfunctions that may interfere with proper system operation due to back-currents, it is imperative to use and connect the anti-back-current diodes supplied with the unit in compliance with the cabling diagram above.

Even when using an additional uninterruptible power supply for locking separate to that of the unit, it is obligatory to follow the above cabling diagram.

SETTING UP THE MODULE IN DOMOS

To configure your DOMOS software, you will need the module identifier. This is printed on a sticker on the top of the housing (e.g. ID: 00001). Make a note of this number.
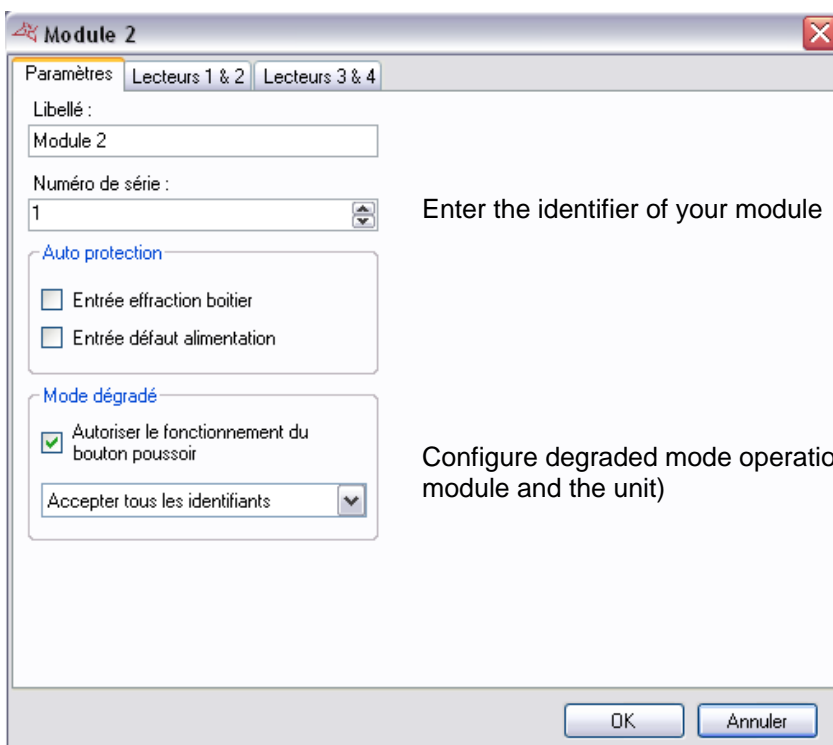
Click on the "Technique" (Technical) button and then "Configuration du site" (Site configuration).

Under the unit your module is connected to, click on "Modules portes" (Door modules) and then "Ajouter un module" (Add a module).
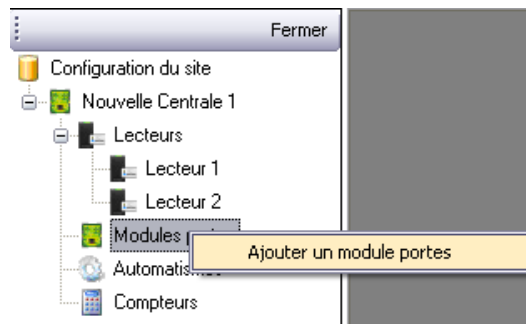
The following window will then be displayed:

Enter the identifier of your module

Configure degraded mode operation (loss of connection between the module and the unit)

FUNCTIONS OF THE TERMINALS

RS485

Extension Bus