2 WIRE to IP Interface

346891

Description

2 WIRE/IP interface in 10 DIN modular socket It can be used for the installation of very large 2 WIRE/IP systems and a high number of devices (entrance panels, handsets and interfaces). The system will consist of an IP backbone and 2 WIRE risers. Advanced functions can be managed thanks to the IP switchboard (software).
The device must be configured.

The interface is not compatible with Classe 300, Classe 300X, Hometouch and Classe 300EOS with Netatmo internal units.

Related items

346300	Switchboard Suite
346050	A/V power supply (6 DIN)
346020	Local power supply (2 DIN)
MyHOME_Suite	2 WIRE/IP interface configuration software
F551	10/100 Mbs switch (DIN modularity) - 5 RJ45 port
F552	Power supply for item F551 switch (DIN modularity) - 230 Vac / 9V, 1,6A

Technical data

Power supply from SCS BUS:	18 – 27 Vdc
Stand by absorption (SCS SIDE):	35 mA
Stand by absorption (DC SIDE):	90 mA
Max. operating absorption (SCS SIDE):	35 mA
Max. operating absorption (DC SIDE) :	115 mA
Operating temperature:	5 – 40 °C

Dimensional data

Size: 10 DIN modules

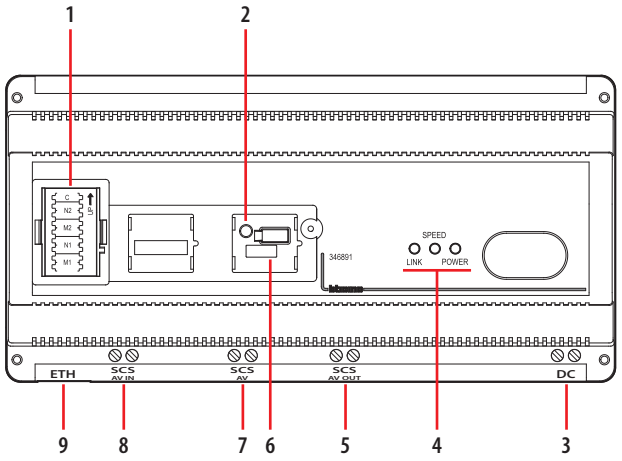
Installation notes

- Compatibility with Switchboard Suite version 4.0.23 or higher.
- The interface item 346891 is not compatible with the previous version 346890.
- The following items must be considered IP devices: switchboard software (346300) and interfaces (346891).

The switchboard software suite offers of several services:
- call management, SoftSwitchboard (the switchboard);
- alarm logger (the server recording alarm events);
- communication framework (always present in the PC);
- alarm manager.

Therefore, a PC unit can include from a minimum of 2 and a maximum 4 IP devices. For most installations, only one alarm recording service is sufficient.

Front view



Legend

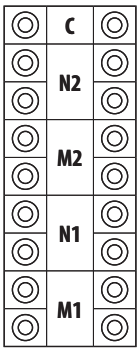
1. Configurator socket
2. RESET pushbutton
3. Clamps for the connection of the second power supply, item 346020 (clamps 1 - 2)
4. User interface LED for the notification of:
   LINK = network found (ON LED= Ethernet network found)
   (OFF LED= Ethernet network not found)
   SPEED = connection speed (ON LED = 100 Mbit)
   (OFF LED = 10 Mbit)
   POWER = power supply status (ON LED = power connected)
   (OFF LED = power not connected)
5. Clamps (SCS AV OUT) for the connection of the 2 WIRE BUS (video door entry system handsets
6. Micro USB ports for PC configuration and Firmware update
7. Clamps (SCS AV) for the connection of the first power supply, item 346050 (BUS clamps)
8. Clamps (SCS AV IN) for the connection of the 2 WIRE BUS (video door entry system entrance panels)
9. RJ45 for the connection of the 10/100 Mbit Ethernet LAN

Configuration

The device must be configured in two different modes:

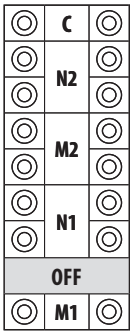
- **Physical configuration** (with physical configurator connection)
- **Software configuration** using the appropriate application MyHOME_Suite, this mode has the advantage of offering many more options when compared with the physical configuration.

The quick configuration is performed by connecting the physical configurators.
The following parameters must be configured:



M1 first part of lowest handset address (00 - 99 - OFF) (*)
N1 second part of lowest handset address (00 - 99)
M2 first part of highest handset address (00 - 99)
N2 second part of highest handset addresso (00 - 99)
C IP switchboard address (1 - 9)

NOTE (*) If M1 = OFF, all other sockets (N1, M2, N2) must not be configured: only entrance panels must be connected to the interface.

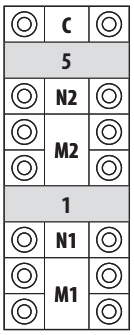


The quick configuration provides access to 3 operating modes:

MODE 1 - The device only manages entrance panels and cameras detected automatically. The number of the IP switchboard called is connected to the C socket (1 to 9).

(*) These sockets must be left empty

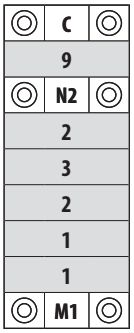
$1 \leq PI \leq 5$



MODE 2 - The device manages handsets with configurations between N1 and N2 and the entrance panels/cameras detected automatically. This configuration must be used for installations with risers with a low number of handsets and low address. The number of the IP switchboard called is connected to the C socket (1 to 9).

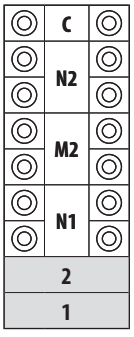
(*) These sockets must be left empty.

$112 \leq PI \leq 3209$



The devices manages handsets with addresses between (M1 x 100) + N1 < IU < (M2 x 100) + N2 and entrance panels/cameras detected automatically. The number of the IP switchboard called is connected to the C socket (1 to 9).

$1200 < PI\ 1299$



MODE 3 - The device manages handsets with addresses between M1 x 100 < IU < (M1 x 100) + 99. The number of the IP switchboard called is connected to the C socket (1 to 9).

(*) These sockets must be left empty.

Note: with this configuration mode, the maximum number of devices that may be connected to the single interface is 95 entrance panels and 3900 handsets.

PHYSICAL ADDRESS AND SYSTEM ADDRESS

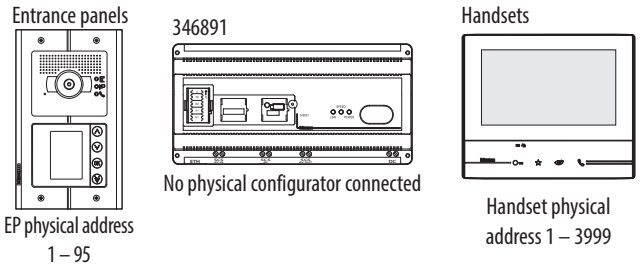
When the interface is configured using physical configurators, the physical and the system address are the same; The advanced configuration using the MyHOME_Suite software gives the possibility of exceeding the 2 WIRE system address limit. This is possible by allocating to the IU (handsets) and the EP (entrance panels) a basic local address. These addresses give the possibility of increasing the number of handsets (basic max. 3999) and Entrance Panels (basic max. 95), that can be managed by the video door entry system.

- Handsets: Enter the value which, when added to the physical address of the handsets connected to the interface, will define their system address (e.g. if the handsets are configured from 1 to 3999, and the value of 4000 is entered, the system addresses of the handsets will be between 4001 and 7999).

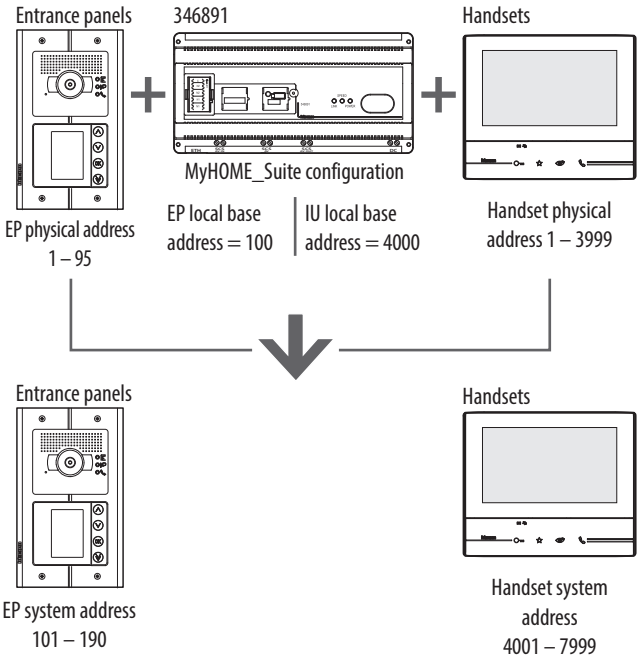
- Entrance panels and door locks: Enter the value which, when added to the physical address of the EPs connected to the interface, will define their system addresses (if the EPs are configured from 1 to 90, and the value of 100 is entered, the system address of the entrance panels will be from 101 to 190).

NOTA: INDIRIZZO FISICO = INDIRIZZO 2 FILI
INDIRIZZO DI SISTEMA = INDIRIZZO FISICO + INDIRIZZO BASE LOCALE PE o PI

PHYSICAL ADDRESS

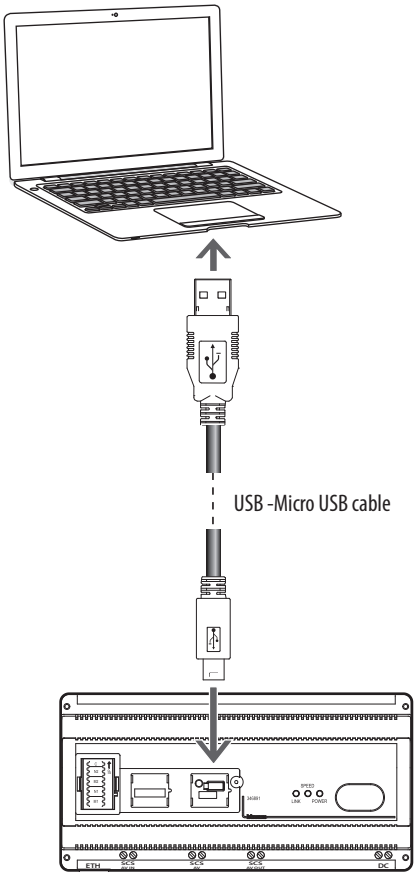


INDIRIZZO DI SISTEMA



The PC advanced configuration, which can be performed using the MyHOME_Suite software, gives the possibility of performing a higher number of functions, of customising text, and of fully exploiting the system performance features.

In order to transfer the configuration performed using the MyHOME_Suite software to the device, or to update the Firmware, connect the 346891 interface to the PC using an USB - micro USB cable.



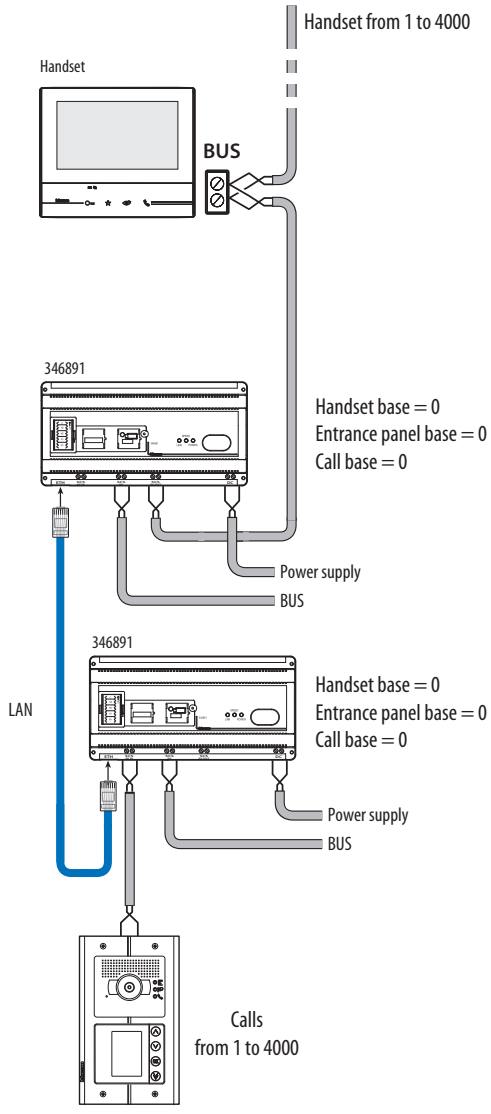
Configuration

	Quick	Advanced
Max. No. of system Handsets (audio or video)	3,900	10,000
Max. No. of system EPs	95	1,000
Highest address that can be called from the EP	4,000	10,000
Max. no. of IP devices	100 (Note 1)	100 (Note 1)
Max. no. of IP switchboards	9	max.100 IP devices (Note 2)
Advanced management of physical and system addresses	NO	YES
Configuration consistency check	YES (Note 3)	YES
Direct Entrance panel - Handset call	NO	YES
Activation redirection	NO	YES
Cycling of cameras	NO	YES

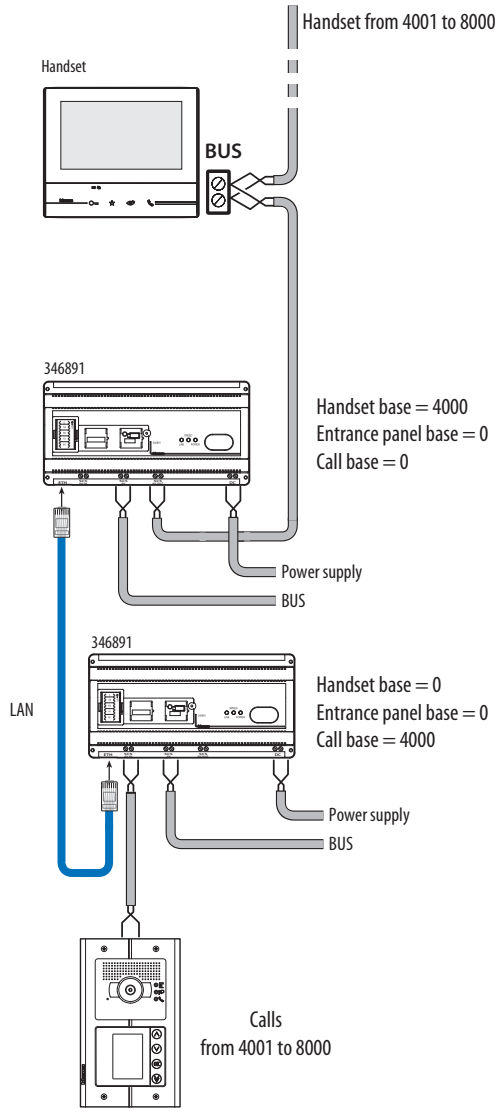
Note 1: the IP switchboard can consist of 2 to 4 IP devices depending on the activation or non-activation of the **Alarm logger** and the **Alarm manager** of the IP switchboard itself;
Note 2: the maximum no. of IP switchboards that may be installed is within the limit of the 100 IP devices maximum, taking however into account the requirements of Note 1;
Note 3: the test must be performed using the "MyHOME_Suite" software.

Configuration examples

Physical SCS address



System address

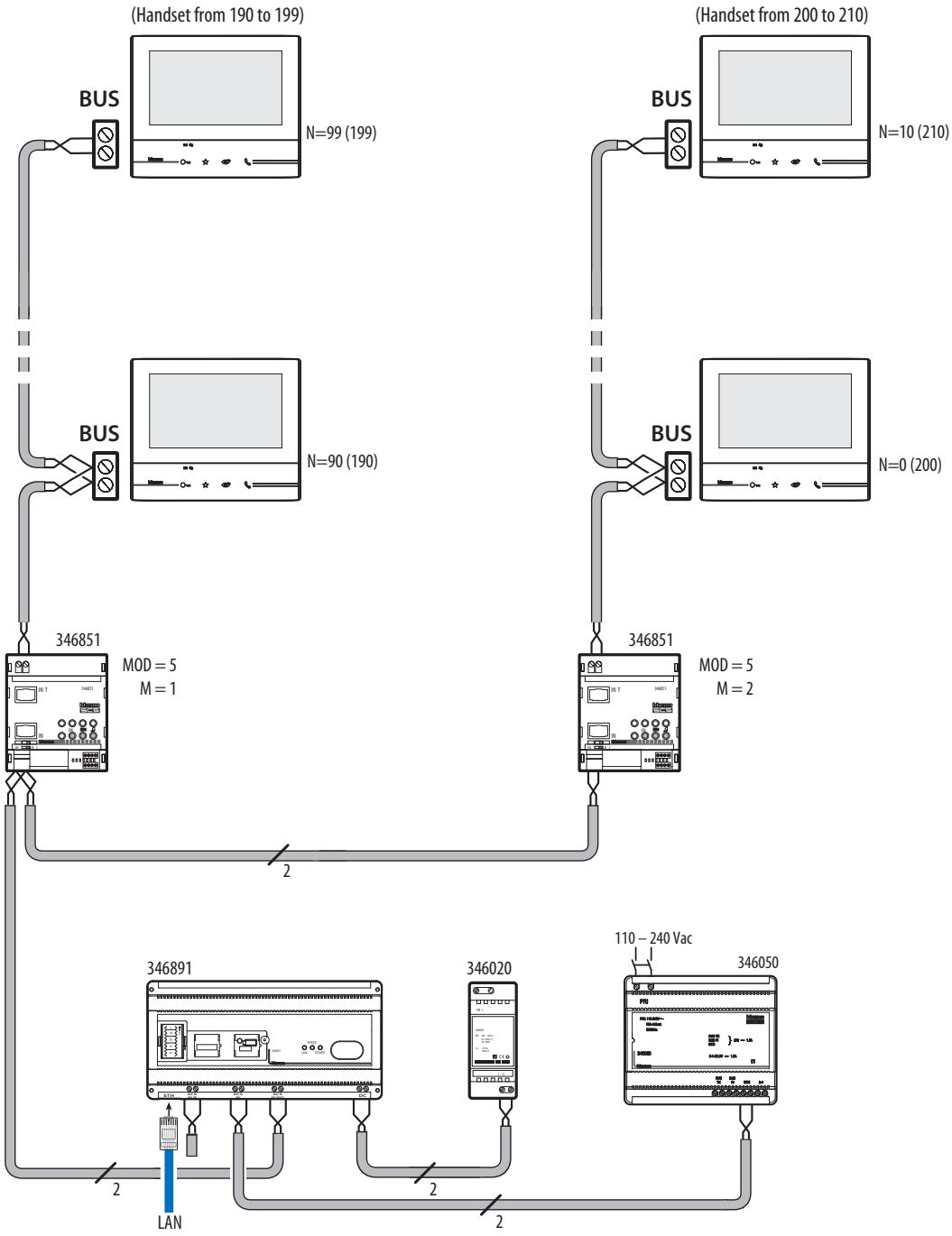


Configuration examples

Advanced management of the physical and system addresses of the handsets

In order to perform (with less than 100 handsets, connected to the 346891 interface) a configuration with system addresses across the 200 level (e.g. from 190 to 210) on a riser, the following procedure may be followed (as an example):

- Using physical configurators, to manage less than 100 handsets with address between 190 and 210, addresses (190 - 199) and (200 - 210) must be recreated on the 2 WIRE system. For this purpose, two system expansion interfaces, item 346851, must be used, appropriately configured



Configuration examples

Advanced management of the physical and system addresses of the handsets

- Using the MyHOME_Suite software, in order to perform a configuration with system addresses across the 200 level (e.g. from 190 to 210) on a riser (with less than 100 handsets, connected to the 346891 interface), it will be necessary to physically configure the handsets with address between 1 and 21, and then use the advanced programming procedure, to assign to the 346891 interface a local base address (H = 189), which, when added to the physical address of the handsets, will recreate the desired interval (189 + 1 = 190), (189 + 21 = 210). This solution does not require the installation of system expansion interfaces, item 346851.