SAFETY INSTRUCTIONS

WARNING

Follow carefully this safety and installation instructions. Improper work may lead to serious harm for your health and also may damage seriously the IntesisBox and/or any other equipment connected to it.

IntesisBox must be installed by accredited electrician or similar technical personnel, following all the safety instructions given here and in accordance always with the country legislation for installation of electric equipment.

IntesisBox cannot be installed outdoors or exposed to direct solar radiation, water, high relative humidity or dust.

IntesisBox must only be installed in a restricted access location.

In case of wall mount, fix firmly IntesisBox on a not vibrating surface following the instructions next.

In case of DIN rail mount fix IntesisBox properly to the DIN rail following the instructions below.

Mounting on DIN rail inside a metallic cabinet properly connected to earth is recommended.

Disconnect always power of any wires before manipulating and connecting them to IntesisBox.

A power supply with an NEC Class 2 or Limited Power Source (LPS) and SELV rated power supply to IntesisBox, respect the polarity if DC power or Line and Neutral if AC power. Apply always a voltage within the range admitted by IntesisBox and of enough power (see technical characteristics).

Circuit-breaker must be used before the power supply. Rating 250V-6A.

Follow instructions next to properly install the gateway.

Wall Mount

1. Separate the fixing clips in the bottom of the box, pushing them to the outside until hear the "click" which indicates that now the clips are in position for wall mount, see in the figure below.

2. Use the holes of the to fix the box in the wall using screws. Use the template below for the wall wholes.

DIN Rail Mount

With the clips of the box in their original position, insert first the box in the upper edge of the DIN rail and later insert the box in the down part of the rail, using a small screwdriver and following the steps in the figure below.

CONFIDENTIALITY

This information is subject to change without prior notice

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## ELECTRICAL & MECHANICAL FEATURES

### Enclosure
- Plastic, type PC (UL 94 V-0)
- Net dimensions (dwh): 90x88x56 mm
- Recommended space for installation (dwh): 130x100x100 mm
- Color: Light Grey, RAL 7035

### Mounting
- Wall
- DIN rail EN60715 TH35.

### Terminal Wiring (for power supply and low-voltage signals)
- Per terminal: solid wires or stranded wires (twisted or with ferrule)
  - 1 core: 0.5mm², 2.5mm²
  - 2 cores: 0.5mm², 1.5mm²
  - 3 cores: not permitted
- If cables are more than 3.05 meters long, Class 2 cable is required.

### Power
- 1 x Plug-in screw terminal block (3 poles)
  
  - 9 to 36VDC +/-10%, Max.: 140mA.
  - 24VAC +/-10% 50-60Hz, Max.: 127mA
  - Recommended: 24VDC

### Ethernet
- 1 x Ethernet 10/100 Mbps RJ45
- 2 x Ethernet LED: port link and activity

### Port A
- 1 x Serial EIA485 Plug-in screw terminal block (2 poles)
  - A, B
- 1 x Plug-in screw terminal block green (2 poles)
- SGND (Reference ground or shield)
- 1500VDC isolation from others ports

#### Switch A (SWA)
- 1 x DIP-Switch for serial EIA485 configuration:
  
  - Position 1:
    - ON: 120Ω termination active
    - Off: 120Ω termination inactive (default)
  - Position 2-3:
    - ON: Polarization active (default)
    - Off: Polarization inactive

### PORT B
- 1 x Serial EIA232 (SUB-D9 male connector)
  
  - Pinout from a DTE device
  - 1500VDC isolation from other ports (except PORT B: EIA485)
- 1 x Serial EIA485 Plug-in screw terminal block (3 poles)
  - A, B, SGND (Reference ground or shield)
  - 1500VDC isolation from other ports (except PORT B: EIA232)

#### Switch B (SWB)
- 1 x DIP-Switch for serial EIA485 configuration:
  
  - Position 1:
    - ON: 120Ω termination active
    - Off: 120Ω termination inactive (default)
  - Position 2-3:
    - ON: Polarization active (default)
    - Off: Polarization inactive (default)

### Battery
- Size: Coin 20mm x 3.2mm
- Capacity: 3V / 225mAh
- Type: Manganese Dioxide Lithium

### Console Port
- Mini Type-B USB 2.0 compliant
- 1500VDC isolation

### USB port
- Type-A USB 2.0 compliant
- Only for USB flash storage device (USB pen drive)
- Power consumption limited to 150mA
- (HDD connection not allowed)

### Push Button
- Button A: Will broadcast I-Am message in the BACnet network
- Button B: Reserved for future use

### Operational Temperature
- 0°C to +60°C

### Operational Humidity
- 5 to 95%, no condensation

### Protection
- IP20 (IEC60529)

### LED Indicators
- 10 x Onboard LED indicators
  
  - 2 x Run (Power)/Error
  - 2 x Ethernet Link/Speed
  - 2 x Port A TX/RX
  - 2 x Port B TX/RX
  - 1 x Button A indicator
  - 1 x Button B indicator

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