

# Communication Hub

## Pro Wireless Online



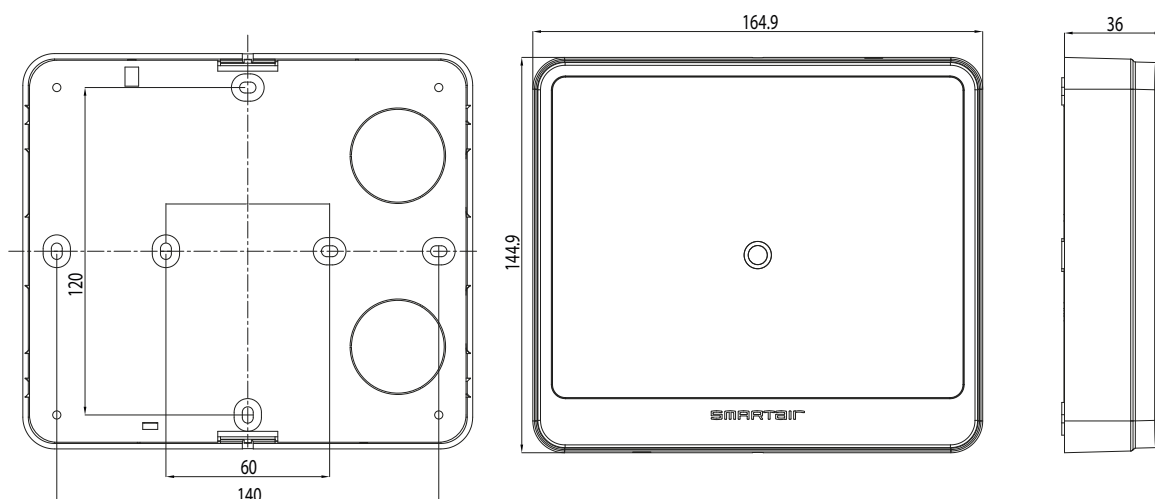
ASSA ABLOY

**SMARTAIR™**  
Your Access. Your Control.

ASSA ABLOY, the global leader  
in door opening solutions



- Communication hubs are the nexus between the management software server and the Pro Wireless Online devices, which allows:
  - Automatic access plan modifications.
  - Real-time audit trail.
  - Immediate cancellation of lost credentials.
  - Remote opening.
- Bi-directional communication allows for direct control of doors, and active warnings with maximum flexibility.
- SMARTAIR™ Hubs do not require their own wiring as they are connected to the existing TCP/IP network.
- PoE connection allows the Hubs to be powered directly from the communications network.
- Each Hub can manage up to 30 access points (doors, barriers, lifts, etc.) at a distance of 30m, which again positively impacts the cost effectiveness of the system.
- Certificates:
  - CE (EMC, R&TTE).
  - ROHS, REACH, WEE.



## Electronic Technical Features Installation recommendation

### Main control

- Encrypted wireless radio frequency communication.
- Secure end-to-end encryption:
  - TCP/IP SSL encrypted communication between server & communication Hubs.
  - 868 MHz or 915 MHz radio communication with door devices, with AES128 encryption.
- Power, 2 ways:
  - 12-24 AC / DC: max consumption 1A @12DC (0,5A @24 VDC).
  - PoE: directly from the network cable (switches must also be PoE).
- Ethernet communication: RJ45 connector for TCP/IP. UTP CAT5 cable recommended.
- Upgradeable firmware.
- Non-volatile event memory
- Autolink of wireless devices with the Hub to allow a quick and easy set up
- Manual link that allows to assign and/or reassign wireless devices to the various Hubs with no need of being physically at the door.

### RF module

- 868MHz or 915MHz selectable in field.
- 30 configurable channels:
  - From 868,00 to 875,25 in steps of 0,25Mhz each channel.
  - From 915,00 to 922,25 in steps of 0,25Mhz each channel.

### Mechanical Technical features

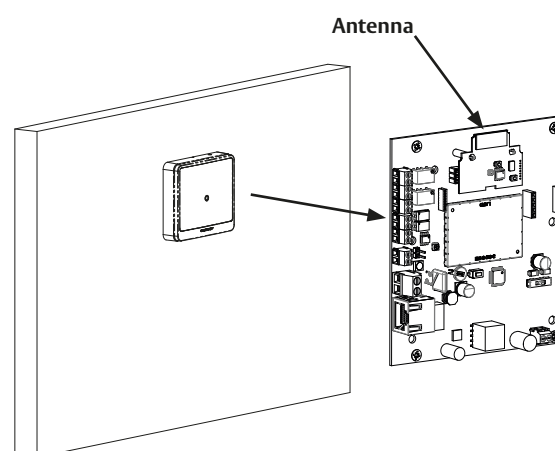
- ABS plastic.
- RAL 7035
- Dimensiones: 144,9 (L) x 164,9 (W) x 36 (D) mm.

### Environmental performance

- Hubs shall be installed in the inside part of the building.
- Temperature range: 0°C - 60°C.
- Humidity: 10-90%. Vapour and humidity may affect wireless signal.

### Recommended Communication Hub position

The following picture shows the recommended location where the SMARTair™ communication Hub should be installed. It should be on the wall, halfway up the ground in a vertical position, and the RF module (antenna) oriented in horizontal.



### Other recommendations to install the Communication Hub correctly:

- Do not install a Hub in outer walls.
- Do not install a Hub near metallic elements, such as grids or structure cables.
- Avoid any mirrors between the Hubs and the wireless devices. Mirrors reflect the signal and do not cross them.
- Avoid installing Hubs where there is a possibility to have more than two walls between it and the wireless devices to communicate with.
- Avoid having microwaves within a distance of 5 meters to the Hub.
- When installing a Hub consider the RF modules of the devices are in the inside part of the door and in the wall readers these are in the outside part.
- Do not install any Hub in metallic doors when possible.