

Communication Hub

Pro Wireless Online

TESA

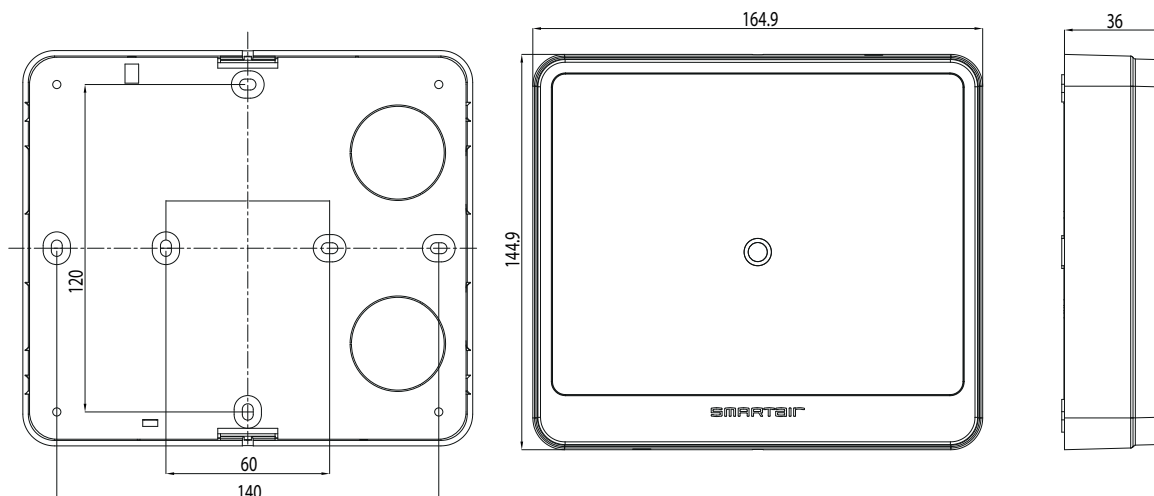
ASSA ABLOY

SMARTAIR®
Your Access. Your Control.

Experience a safer
and more open world



- 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

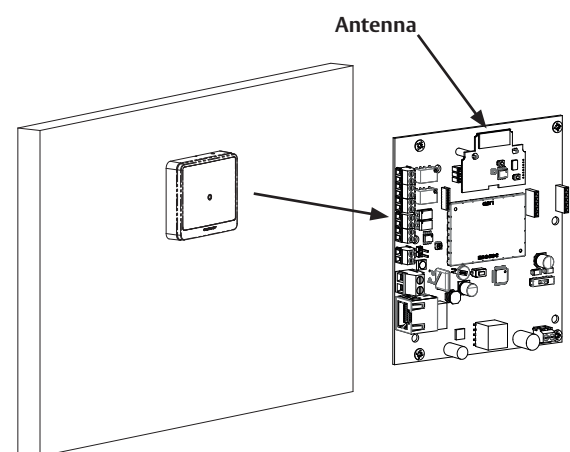
- ABS plastic.
- RAL 7035
- Dimensiones: 144,9 (L) x 164,9 (W) x 36 (D) mm.

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.