

# Aperio® AH20 Advanced Gen5 1 to 1 Communication Hub



Wiegand Interface (Advanced Wiegand) Communication Hub For indoor use

## Product description

- For connection to EAC system via Wiegand interface
- Provides radio communication to the Aperio® door devices
- Integrated antenna with the option to mount an external antenna
- Encrypted radio communication
- For standard electrical installation boxes
- LED for status visualisation
- Built in tamper switch. Detection of removal from bracket
- Additional relay outputs: These relay outputs can be connected the to the controller. The messages are fixed as follows: DPS (Door Position), RX (Request to exit), Battery Alarm Output, Tamper Alarm Output, Lock Jammed

## Scope of delivery

- 1 hub with installation instructions
- Fixing screws to mount hub to wall housing.
- Wall mount bracket

## Suitable ASSA ABLOY products

- External antenna

## Technical data - Wiegand Interface (Advanced Wiegand) Communication Hub



|  |                                         |                                                                                                                                                                                                                                                                             |
|--|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>Approvals</b>                        | CE, ETL, FCC, IC, C-Tick                                                                                                                                                                                                                                                    |
|  | <b>Safety and Emissions</b>             | IEC 62368-1:2014<br>EN 62368-1:2014 + A11:2017<br>UL/CSA 62368-1:2014<br>EN 301 489-1 V2.1.1<br>EN 301 489-17 V3.2.0<br>EN 300 328 V2.2.2<br>EN 50130-4:2011 + A1:2014<br>EN 62311<br>FCC 47CFR Part 15 subpart B and subpart C<br>ISED RSS-247 and ICES-003<br>AS/NZS 4268 |
|  | <b>Dimension</b>                        | 82 x 82 x 37 mm (H x W x D)                                                                                                                                                                                                                                                 |
|  | <b>Required power supply</b>            | 8 - 24V,DC 2W                                                                                                                                                                                                                                                               |
|  | <b>Relay</b>                            | 30VDC/1A resistive load (Advanced Version only)                                                                                                                                                                                                                             |
|  | <b>Radio standard</b>                   | IEEE 802.15.4 (2.4 GHz) - 16 channels (11-26)                                                                                                                                                                                                                               |
|  | <b>Encryption (radio communication)</b> | AES 128 bits                                                                                                                                                                                                                                                                |
|  | <b>Receiver sensitivity</b>             | - 100dBm                                                                                                                                                                                                                                                                    |
|  | <b>Wireless operating range</b>         | Typical range of 25m depending on building environments                                                                                                                                                                                                                     |
|  | <b>Internal antenna</b>                 | 2 cross polarized dipoles                                                                                                                                                                                                                                                   |
|  | <b>External antenna</b>                 | One reverse polarity SMA external antenna connector. AH20/30 is certified to be used with ASSA ABLOY external antenna AH-ANTENNA-1. If other external antenna is used it must be of same type (dipole) and not have larger antenna gain than 3.6 dBi.                       |

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**ASSA ABLOY**  
Opening Solutions



|                                                                                   |                                    |                        |
|-----------------------------------------------------------------------------------|------------------------------------|------------------------|
|  | <b>Class of protection</b>         | IP 20                  |
|                                                                                   | <b>Operating temperature range</b> | 5°C to 35°C            |
|                                                                                   | <b>Relative humidity</b>           | < 95% (non-condensing) |
|  | <b>Status</b>                      | LED (red/green/orange) |