4G · GNSS · BLUETOOTH · RFID

HB-A1SP

4G Solar-Powered Electronic Lock

Long-lasting, secure and smart locking, powered by the sun

CE ATEX



About the HB-A1SP

HB-A1SP is a 4G-connected, solar-rechargeable, explosion-proof (ATEX) electronic lock built for logistics and industrial use. Remote monitoring, location tracking, multi-lock cascading and smart alarms give you a high level of security and control.

Where it is used

- Containers
- Tankers
- Logistics vehicles
- Steel safes
- Fuel tank caps

Key features

- Extra-long standby time
- Unlocking by RFID card
- Unlocking from the mobile app over Bluetooth
- Remote unlocking over 4G
- Multi-lock cascading
- IP67 waterproof
- Smart alarm system
- Explosion-proof (Ex) housing
- Solar panel charging (optional)

Specifications

Physical	
Dimensions	209 × 115 × 51 mm
Cable length	300 mm
Weight	1,150 g
Housing	Heat-resistant PC
Shackle strength	1,000 kg
Protection rating	IP67

GNSS positioning	
Satellite systems	GPS, BeiDou (64 independent signals)
Tracking accuracy	1 – 10 m
Time to first fix	Hot 1 s · Warm 13 s · Cold 32 s

Connectivity	
Network	LTE FDD / WCDMA / GSM
Data protocols	TCP / FTP / SMS

Unlocking modes	
RFID	2.5 cm
Bluetooth	BLE 4.0 (range 20 m)
GPRS / SMS	No distance limit

Power / battery	
Main battery	15,200 mAh Li-ion · 3.7 V · 55.5 Wh
USB charging	5 V DC 2 A
Solar charging current	250 mA/h
Charging time	10 hours
Standby time	31 days without solar charging (reporting every 10 minutes)

Operating environment	
Operating / storage	−40 °C to +85 °C
Charging temperature	0 °C to +45 °C
Humidity	0 – 100% (non-condensing)
Mounting	Magnetic attachment

Certifications and standards

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Complies with safety and environmental protection standards.

ATEX

Suitable for use in explosive atmospheres.