4G · GNSS · BLUETOOTH · RFID

HB-A1M

4G Explosion-Proof Electronic Lock

A compact, secure and smart lock

CE ATEX IP67



About the HB-A1M

HB-A1M is a 4G-connected, explosion-proof (ATEX) electronic lock built for logistics and industrial use. Its compact size, light weight, long standby time 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 (20 days)
- Small and lightweight design
- Multi-lock cascading
- IP67 waterproof
- Smart alarm system and Ex-proof housing

Specifications

Physical	
Dimensions	124 × 95 × 47 mm
Weight	544 g
Shackle strength	1,000 kg

GNSS positioning	
Acquisition / tracking sensitivity	−147 dBm / −166 dBm
Tracking accuracy	1.5 m
Time to first fix	Hot 1 s · Warm 25 s · Cold 28 s

Connectivity	
Network	4G LTE / 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	2,950 mAh Li-ion · 3.7 V · 10.9 Wh
USB charging	5 V DC 2 A
Charging time	6 hours
Standby time	20 days (reporting every 10 minutes)

Operating environment	
Operating / storage	−30 °C to +70 °C
Charging temperature	0 °C to +45 °C
Mounting	Magnetic attachment

Certifications and standards

CE

Complies with safety and environmental protection standards.

ATEX

Suitable for use in explosive atmospheres.

IP67

Rated for protection against dust and water ingress.