



NFC SMARTLOCKS
Keyless & Batteryless
Access Control Solutions

PAD3-25-AC
Grade 3 NFC Padlocks,
25 mm stainless steel shackle

PAD3-25-AC: pop-up
PAD3-25-AC: auto-closing

PAD3-25-AC is a keyless and batteryless NFC padlock from Phoenix Smartlocks. Its operation is entirely key-free, requiring only an Android or iOS smartphone to unlock it. PAD3-25-AC harvests energy wirelessly from the user's smartphone, making it a truly battery-free and maintenance-free device.

PAD3-25-AC is a smart device that seamlessly integrates in your existing infrastructure and access control needs. Its access control behavior is 100% software defined, making it able to operate from pre-granted permission environments to setups with real-time access control checks against a corporate backend, or anything in between.



Designed to withstand both physical and digital threats, the PAD3-25-AC is built for the most demanding industrial applications.

Its wide operating temperature range as well as its IP68 rating make it ideal for access control in harsh industrial environments.

The padlock body, manufactured by Anchor Lås, offers Grade 3 resistance to attack, and its freely rotating knob is specially designed to prevent damage from tampering.

PAD3-25-AC is protected against both passive and active cyber threats using industry-standard AES-256 encryption for all communications.

Compatible with Android and iOS phones.

ELECTRONIC / CYBERSECURITY FEATURES

- NFC communication compliant with ISO 14443A
- Unique, non-duplicable electronic identity
- Unique access codes per padlock
- Programmable access permissions (time-limited and access-count based)
- AES-256 encrypted communications
- Protection against replay attacks
- Internal memory for up to 1,000 access events
- Compatible with Android and iOS devices

ENVIRONMENTAL SPECIFICATIONS

- Operating temperature range: -40°C to +80°C
- Ingress protection: IP68
- Corrosion resistance: Grade 4 (EN 12320:2021)

VARIANTS

PAD3-25-AC

The phone must be used for both unlocking and locking. Upon unlocking, the padlock releases the shackle upward using an internal spring (“pop-up” mechanism). During locking, the padlock verifies that the shackle has been properly seated in its housing, preventing the possibility of unauthorized or improper closure.

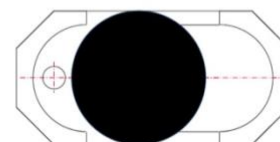
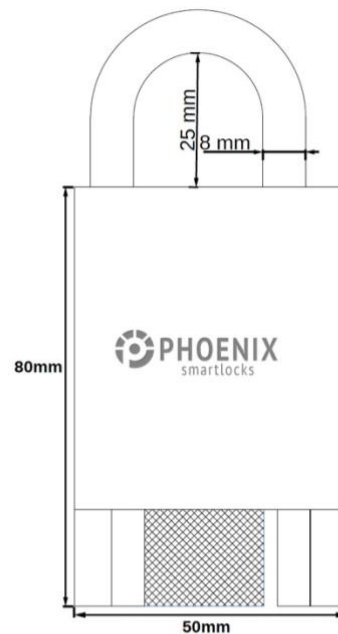
PAD3-25-AC

The phone is required only for unlocking; locking is performed manually without the need to use the phone again. The padlock features an “auto-closing” mechanism, which, together with the electronic “auto-free” functionality, allows the shackle to be fully secured by simply inserting it into its housing.

MECHANICAL & PHYSICAL DATA

- Brass body with chrome-plated finish
- Corrosion resistance: Grade 4 (EN 12320:2021)
- Stainless steel shackle, 25 mm clearance height, 8 mm diameter
- High-strength, free-rotating release knob manufactured from polyoxymethylene (POM)
- Attack resistance: Grade 3 (EN 12320:2021)
- Weight: 600 gr.

DIMENSIONS



Not to scale.

Data information also valid for references: PAD3-60-XY (60 mm shackle) & PAD3-110-XY (110 mm shackle)