

## H50S.431.28.HC Padlock with 11/28mm shackle

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### System-level description

The patented, award winning iLOQ S50 locking system offers advanced security and convenient access sharing capabilities for master-key locking environments.

The iLOQ H50S padlocks enable usage of the iLOQ S50 locking system for securing remote objects and locations. The lock harvests electricity wirelessly from NFC field, which enables using phone not only as a key but also as a power source thus the padlock is completely battery free. As no batteries are required, the padlocks are maintenance free and environmentally friendly green solution that eliminates work, costs, waste and harm associated with battery powered solutions.

The padlock doesn't have a keyway due to the contactless NFC operation. It is designed to be used in harsh environments where the padlocks are exposed to dust, moisture and varying temperature conditions ranging from extremely cold to hot weather.

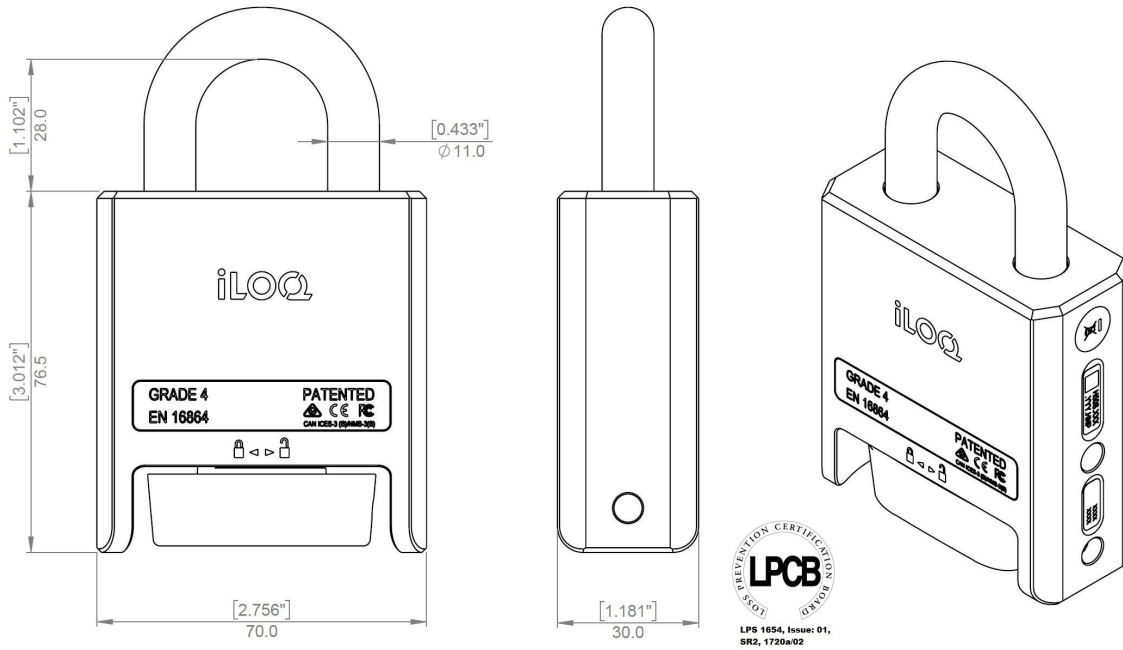
The phone as a key enables flexible access sharing with time restrictions and audit trail reporting over the air. The security level is kept high and security gaps caused by lost key can be eliminated completely without costly change of locks and keys.

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### Feature summary

- battery-free programmable electromechanical padlock for the iLOQ S50 locking system
- NFC-powered: no batteries required for the padlock
- Opening with NFC enabled smartphone (Android or iOS (13 and iPhone 7 and newer) or iLOQ K55S Key Fob
- Secured using powerful AES-256 encryption and mutual authentication
- Initial programming with PC and iLOQ P55S.1 Programming Token in connection to the server
- Access right list for access groups
- Blocklist for individual lost keys
- Internal audit trail record with time stamp (can be configured on/off)
- Supports time restrictions
- Can be configured to require online opening authentication
- Re-programming with keys (NFC enabled smartphone or K55S Key Fob)
- Firmware updateable
- H50S.x31: opening and closing with user credential
- HS50.x41: opening with and closing without user credential
- Knob protected against impacts (e.g. fall)
- NFC 13,56 MHz Load modulation (ASK) ISO/IEC 14443A, no transmitter
- IP68 test passed for new unused lock. Not allowed to install or use submerged

## Dimensional drawing



## Memory capacity

|                                  |     |
|----------------------------------|-----|
| Number of access rights .....    | 210 |
| Number of blocklisted keys ..... | 500 |
| Number of time slots .....       | 10  |
| Size of event log .....          | 500 |

## Technical data

|   |                         |
|---|-------------------------|
| Chain included .....                                  | <b>X</b>                |
| Corrosion resistance .....                            | 96h salt spray          |
| Ingress protection rating .....                       | IP68                    |
| Lockable without key .....                            | <b>X</b>                |
| Surface treatment .....                               | Polished chrome         |
| Maximum temperature .....                             | 176°F                   |
| Minimum temperature .....                             | -40°F                   |
| Attack resistance (EN 16864:2017) .....               | Class 4                 |
| Category of use (EN 16864:2017) .....                 | Class 1                 |
| Corrosion resistance (EN 16864:2017) .....            | Class 3                 |
| Durability (EN 16864:2017) .....                      | Class 1                 |
| Electronic key related security (EN 16864:2017) ..... | Class D                 |
| Environmental resistance (EN 16864:2017) .....        | Class 4                 |
| Mechanical key related security (EN 16864:2017) ..... | Class 0                 |
| System management (EN 16864:2017) .....               | Class 3                 |
| Other certificates .....                              | FCC Part 15B (ICES-003) |