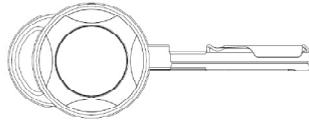# iLOQ K10S.1 KEY

Features

The patented, award winning iLOQ S10 locking system offers advanced security and convenient access management for master-key locking environments.

The iLOQ K10 keys are battery-less operating digital keys with integrated SHA-1 Chip. As all keys are mechanically identical, no individual cut is needed. This enables flexible stocking of keys and fast deliveries. The encrypted SHA-1 chip contains access rights as well as unique key data eliminating the risk of duplication. The system specific access rights for each key are programmed at handover. Issuing a new key does not require any programming of locks. Access rights are removed when a key is returned. Also storing a key is not a risk and erased keys can be reprogrammed for another use later. As each key is digitally unique, blacklisting of lost keys can be managed easily avoiding high lost key costs and long-lasting security gaps.

iLOQ K10S.1 key in brief

- Battery-free digital key
- Key body made of stainless steel
- All iLOQ C10S lock cylinders and iLOQ K10S.1 keys are mechanically alike
- Secured using SHA-1 cryptographic engine, 64bit unique secret
- Access groups programmed at handover, maximum 15 groups per key
- Each key has unique identifier and can be individually blacklisted
- Laser stamped four digit random number
- Programmed by iLOQ S10 Management software and iLOQ P10S Programming device or via iLOQ N001 Network module
- Erased upon return, may be reused, for instance in another locking system
- Dallas Semiconductor DS2432 1k-bit Protected 1-Wire® EEPROM with SHA-1 Engine
- Place for optional RFID pet disc (16 mm)

Technical Data

prEN 15684:2007 (see Note 1) Classification	Grade, Requirements	Notes
Category in use (Grades 0..2)	Grade 2	See Note 2
Durability EN 1303:2005 (Grades 4..6)	Grade 6, >200 000 openings	
Environmental resistance (Grades 0..3)	Grade 3, -20ºC..+70ºC	tested to -30ºC..+70ºC
Mechanical code variations (Grades A..F)	Grade A, 0	Not individual cut
Electronic code variations (Grades A..F)	Grade F, 1000 000 000	64bits, unique challenge

Note 1), Requirements of iLOQ C10S.1 Lock Cylinder and iLOQ K10S.1 Key is defined according to prEN 15684:2007 Building hardware – Mechatronic cylinders – Requirements and test methods. prEN 15684:2007 draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 33. **Note 2)**, Grade 2 include requirements and tests against bumps, hits, vibrations, high voltage, electrostatic discharge, electromagnetic field and magnetic field attacks.