



Technical Data

ENiQ® Pro V2 Padlock

General:

Padlock without forced closing

Technology:

- 13.56 MHz (RFID / NFC)
- 2.4 GHz (BLE: Bluetooth Low Energy)

Material:

- Housing: Solid brass, surface matt chrome plated
- Bottom plate: Polyamide (PA66)
- Shackle: Steel (10B21), surface brilliant chrome plated
- Knob of cylinder: Stainless steel 1.4305

Durability:

- Padlock: at least 10,000 cycles (according to DIN EN 12320, grade 1)
- Cylinder: at least 100,000 cycles (according DIN EN 1303 and EN 15684 grade 6)

Mechanical strength:

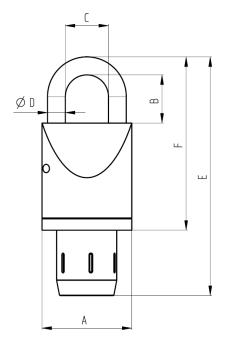
• Strength of shackle:

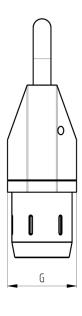
- Tensile strength: \geq 15 kN (Ch. 5.5.5, DIN EN 12320) - Torsional strength: \geq 200 Nm (Ch. 5.5.6, DIN EN 12320) - Cutting strength: \geq 25 kN (Ch. 5.5.7, DIN EN 12320)

- Impact resistance of padlock housing and shackle:
 - Tested with 5 shocks at -20°C (falling mass of 1,250 g from a height of 800 mm)

Dimensions:

• Width	A =	56 mm
 Thickness 	G =	43 mm
 Length without knob 	F =	109 mm
with knob	E =	150 mm
Shackle diameter	D =	11.1 mm
Inner shackle heightInner shackle width	B = C =	30 mm 27 mm









Technical Data ENiQ ® Pro V2 Padlock • Battery pack with 2 lithium cells 3.0 Volt • Type CR2 (Li-MnO₂ system)

Battery life time and data preservation:

At room temperature (+20°C):

- Up to 80.000 locking cycles or
- Up to 3,5 years in case of non-use or
- Up to 3 years for typical 10 locking cycles per day

Intelligent battery management:

- Multilevel temperature-compensated alarm system in case of voltage drop
- 10 years data preservation without battery

Time / Date:

- Buffering typically 1 minute (in case of battery change)
- Clock drift at room temperature: ±10 minutes/year

at -25°C and +70°C: -50 minutes/year

Clutch duration:

- Adjustable ranging from 1 to 30 seconds
- Permanent open/close mode

Signalling:

- Optical signalling by 4 multicolour LEDs
- Circular lighting segments in knob cover

Certifications:

 Certification of the cylinder according to EN 15684 (PIV test reports 49-2/15)

Digit	1	2	3	4	5	6	7	8
Grade	1	6	В	4	Α	F	3	2

 Certification of the padlock according to DIN EN 12320 (PIV test report 51-2/15):

Digit	1	2	3	4
Grade	1	1	3	3

Environmental:

- Padlock in combination with Pro cylinder:
 - Temperature: -25°C to +65°C
 Humidity: 20-96% no condensation
 Anticorrosive according to grade 3 DIN EN 12320
 (salt spray test 96 h)
- Locking cylinder:
 - Temperature: -25°C to +65°C (grade 4 EN 15684)
 Humidity: 20-99% no condensation (grade 4 EN 15684)
 Protection class: IP66 (knob), IP65 (complete cylinder)
 Anticorrosive according to grade 3 DIN EN 1670 (salt spray test 96 h)

Programming:

Programming via NFC/BLE-with the following prerequisites:

- ENiQ App (NFC/BLE) (see datasheet ENiQ App)
- ENiQ Software via BLE Stick (see separate datasheet of ENiQ AccessManagement Software)
- Storage of max. 5 programming cards

Events:

• Ring buffer for the latest 2.000 events





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Inductive transponder interface:

Reading range: up to 3 cm
 Frequency: 13.56 MHz
 Field strength in 10 m distance: <42 dB μA/m

In conformity with ETSI EN 300 330

• Supports passive transponders (ISO 14443 A)

Encryption:

- Mifare DESFire EV1 / EV2: AES-128 Bit

- Mifare Classic: Crypto-1 encryption

• Additionally AES-128 Bit encryption with object specific keys

Bluetooth Low Energy (BLE):

Communication range: typical 15 m
 Frequency: 2.4 GHz
 Transmission power: < 20 dBm

• Conformity to ETSI EN 300 330

• Key exchange: Curve25519-256 Bit (elliptical curve)

• Encryption: XSALSA20-256 Bit

• Signature / Authentication: Poly1305-128 Bit

• Bluetooth version: 5.0 (≥ Firmwareversion 4.3)

Transponder types:

- All actual DOM transponder types
- Other types or transponder from other suppliers have to be checked

Storage of access authorisations in the device:

- Supported transponders:
 - Mifare DESFire / DESFire EV1 / EV2 2k, 4k, 8k
 - Mifare Classic 1k, 4k
 - Mifare Plus S/X 2k, 4k
 - Mifare Ultralight / Ultralight C
- Storage of maximal 5.000 authorisations in the device
- Identification of the transponders by their UID or by other unique data

Storage of access authorisations on the transponders:

- Supported transponder types:
 - Mifare DESFire EV1 / EV2 2k, 4k, 8k
 - Mifare Classic 1k
- Other data on the transponder:
 - "Blacklist" with blocked transponders
 - Authorisation period, weekly schedule at the device

Weekly and day's schedules:

- Storage of max. 256 weekly / day's schedules per device
- Each weekly schedule points to 10 arbitrary day's schedules (7 week days and 3 special days for holidays):

1	2	3	4	5	6	7	8	9	10
Mon	Tue	Wed	Thu	Fri	Sat	Sun	holida	y / vaca	tion
DS1	DS2	DS3	DS4	DS5	DS6	DS7	DS8	DS1	DS2

• Each day's schedule consists of 96 time slots of 15 minutes, in each case definable as authorised or unauthorised:

000	100	200	300		20 <u>00</u>	21 <u>00</u>	22 <u>00</u>	2300
				•••				





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Weekly and day's schedules:

• access rights of the weekly / day's schedules:

- # 0: no access (unauthorised)

- # 1: access with no time-limits,

active special functions may limit access

- ## 2-254: freely definable

- # 255: access with no time-limits,

active special functions are ignored

• Permanent-open and permanent-close weekly schedules

Office function

Holidays:

• Storage of maximum 256 holidays or vacation periods per device

• Definition of 3 different kinds of holidays/vacations

• Begin / end as from / to date



All data correspond to the actual development status and are subject to change at any time without notice.