



Technical Data

ENiQ® Pro V2

Variants:

- ENiQ Pro double cylinder (DC)
 - Even the standard version includes all mechanic and electronic security features:
 - Body and core drilling protection
 - Separate control electronic for actor in the core
- ENiQ Pro half cylinder (HC)
 - Outside basic length 30 mm, inside length 10 mm
 - Version "MIWE":
 - 90° cam range (adjustable)
 - Spring return mechanism for the cam
 - Cam position adjustable in 45° steps
 - Version "Haushahn" with two rear sided M4 threads
- ENiQ Pro EE double cylinder (emergency exit)
 - Application in escape and emergency routes (EN 179, EN 1125)
 - Return mechanism for the cam according to class R1 of DIN 18252:2018-05:
 - Cam position 6 o'clock ± 30°, dead range 12 o'clock ± 15°
 - Basic length 30/30 mm
 - Version EE-IM: Inside operation by a special mechanical key
 - Version EE-OI: Without inside knob
- ENiQ Pro KL (German: „Kurz-Lang“ cylinder)
 - Inside basic length 30 mm
 - Reduced outside length of 27,5 mm (see cylinder lengths)
- ENiQ Pro V2 with slippery clutch
 - With knob K6 on the inside
 - Can be locked from the outside even if the inside knob is held
- ENiQ Pro GL (cylinder für glass doors)
 - Outside basic length 30 mm
 - Reduced inside length of 10-27,5 mm (see cylinder lengths)
- ENiQ Pro OI (without inside knob)
 - Blind cylinder on the inside
- ENiQ Pro BS (reader on both sides)
 - Basic length 30/30 mm
 - Reading of transponders also on the inside
- ENiQ Pro KZSV (German: Kernziehschutzverlängerung)
 - For assembly in fittings with core pulling protection
 - Protruding outer shaft by 8,5m
 - Shaft diameter 15 mm
- ENiQ Pro CH (22 mm Swiss round profile)
- ENiQ Pro 382 lever cylinder (e.g. for letter boxes)
 - Housing length 36,6 mm, for mounting holes Ø 26 × 22 mm
 - 90° turning movement, lever is blocked in end positions
 - Adjustable lever position: 4×90°
- ENiQ Pro 1328 half cylinder for swivelling lever handles
 - Chamfered locking cam with 45° turning movement
 - Automatic locking by return mechanism for the flattened cam
- ENiQ Pro 777 padlock
 - See separate data sheet



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	<ul style="list-style-type: none">• ENiQ Pro PP (privacy protection)<ul style="list-style-type: none">- Available for all cylinder versions- Grade 1: Anonymised storage of all access control events- Grade 2: No storage of any access control events
Technology:	<ul style="list-style-type: none">• 13,56 MHz (RFID / NFC)• 2,4 GHz (BLE: Bluetooth Low Energy)
Power supply:	<ul style="list-style-type: none">• Battery pack with 2 lithium cells 3,0 Volt• Type CR2 (Li-MnO₂ system)
Battery life time and data preservation:	<p>At room temperature (+20°C):</p> <ul style="list-style-type: none">• Up to 80.000 locking cycles <u>or</u>• Up to 3,5 years in case of non-use <u>or</u>• Up to 3 years for typical 10 locking cycles per day <p>Intelligent battery management:</p> <ul style="list-style-type: none">• Multilevel temperature-compensated alarm system in case of voltage drop• 10 years data preservation without battery
Time / Date:	<ul style="list-style-type: none">• Clock buffering typically 1 minute (during battery change)• Clock drift at room temperature: ±10 minutes/year at -25°C and +65°C: -50 minutes/year
Durability:	<ul style="list-style-type: none">• At least 100.000 cycles (according to EN 15684 grade 6)
Clutch duration:	<ul style="list-style-type: none">• Adjustable ranging from 1 to 30 seconds• Permanent open/close mode
Signalling:	<ul style="list-style-type: none">• Optical signalling by 4 multicolour LEDs• Circular lighting segments in knob cover
Cylinder length / dimensions:	<ul style="list-style-type: none">• Maximum standard length 90/90 mm, higher lengths on request• Version KL with outer length of 27,5 mm• Version GL (glass door cylinder) with inner length from 10 to 27,5 mm• Extendable in 5 mm steps (Glass door cylinder: inner side in 2,5 mm steps)• For backset < 30 mm the application is to be checked
Knobs:	<ul style="list-style-type: none">• Outside knob: stainless steel: Ø 37,5 mm, length 44,8 mm• Inside knob: pot metal: Ø 32,0 mm, length 30,0 mm• For double cylinder with two-side readability both knobs: stainless steel Ø 37,5 mm, length 44,8 mm• Optional available in: black glossy powder-coated RAL9005 white glossy powder-coated RAL 9003 brass (PVD coated)
Environmental:	<ul style="list-style-type: none">• Temperature: -25°C to +65°C (grade 4 of EN 15684)• Humidity: 20-99%, no condensation (grade 4 of EN 15684)



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- Protection class: IP66 (outside knob) for all variants
IP 65 (complete Europrofile cylinder, all variants)
PIV test report 44-3/15
(no IP classification for versions 1328, 382 and HC "MIWE")
- Anticorrosive according to DIN EN 1670 grade 3 and grade 4 of EN 15684
- SO₂ corrosion test: VdS 2156-2 / DIN EN ISO 6988 (15 cycles with 0,2 l SO₂)

Approvals and certifications:

- Approved by German VdS: grade BZ+, certificate M116308
- SKG*** approval
- Not for the variants: Swiss round cylinder
Half cylinder type "MIWE"
382 lever cylinder
1328 half cylinder for swivelling lever handles
777 padlock
- Fire resistance test T90 (ift test reports 15-003428-PR01 and 18-002163-PR01)
Tested with two-wing steel door, refer to HPS 18-001080-PR02)
- Tested as free-wheeling cylinder according to test directive FZG, version 2010_01 of German PIV, test report 20-8/15 (not for EE version)
- Certification according to EN 15684 (PIV test reports 49-2/15)

Digit	1	2	3	4	5	6	7	8
Grade	1	6	B	4	A	F	3	2
- The two grades „F“ for the credential related security (6th digit) and „2“ for the attack resistance (8th digit) allow according to EN 1627 the installation in burglary-resistant doors up to resistance class RC4 without separate test

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

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 / EV3: 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





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- 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:
 - DESFire EV1 / EV2 / EV3 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:
 - DESFire EV1 / EV2 / EV3 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	holiday / vacation		
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	...	2000	2100	2200	2300
- 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.

