



G

Technical Data	ENiQ <sup>®</sup> Pro Padlock
General:	Padlock without forced closing
Technology:	• 13,56 MHz Mifare
Material:	<ul> <li>Housing: Solid brass, surface matt chrome plated</li> <li>Bottom plate: Polyamide (PA66)</li> <li>Shackle: Steel (10B21), surface brilliant chrome plated</li> <li>Knob of cylinder: Stainless steel 1.4305</li> </ul>
Durability:	<ul> <li>Padlock: at least 10.000 cycles (according to DIN EN 12320, class 1)</li> <li>Cylinder: at least 100.000 cycles (according DIN EN 1303 and EN 15684 grade 6)</li> </ul>
Mechanical strength:	• Strength of shackle: - Tensile strength: - Torsional strength: - Cutting strength: $\geq 15 \text{ kN}$ (Ch. 5.5.5, DIN EN 12320) $\geq 200 \text{ Nm}$ (Ch. 5.5.6, DIN EN 12320) $\geq 25 \text{ kN}$ (Ch. 5.5.7, DIN EN 12320)
	<ul> <li>Impact resistance of padlock housing and shackle:         <ul> <li>tested with 5 shocks at -20°C</li> <li>(falling mass of 1.250 g from a height of 800 mm)</li> </ul> </li> </ul>
Dimensions:	WidthA =56 mmThicknessG =43 mmLength without knobF =109 mmwith knobE =150 mmShackle diameterD =11,1 mmInner shackle heightB =30 mmInner shackle widthC =27 mm

А



DOM

Technical Data	ENiQ <sup>®</sup> Pro Padlock
Power supply:	<ul> <li>battery pack with 2 lithium cells 3,0 Volt</li> <li>type CR2 (Li-MnO<sub>2</sub> system)</li> </ul>
Battery life time and data preservation:	<ul> <li>at room temperature (+20°C):</li> <li>up to 100.000 locking cycles or</li> <li>up to 3 years in case of non-use</li> </ul>
	<ul> <li>multilevel alarm system in case of voltage drop</li> <li>10 years data preservation without battery</li> </ul>
Time / Date:	• buffering typically 1 minute (in case of battery change)
	<ul> <li>clock drift at room temperature: ±10 minutes/year at -25°C and +70°C: -50 minutes/year</li> </ul>
Signalling:	<ul> <li>optical signalling (red/green/blue)</li> <li>circular lighting segments in knob cover</li> </ul>
Clutch duration:	<ul> <li>adjustable ranging from 1 to 30 seconds</li> <li>permanent open/close mode</li> </ul>
Certifications of cylinder:	<ul> <li>VdS-BZ+ approval</li> <li>SKG*** approval (certificate no. 442-393.04/05)</li> </ul>
	<ul> <li>certification according to EN 15684 (PIV test report 49-2/15)</li> <li>Digit 1 2 3 4 5 6 7 8</li> <li>ENiQ Pro cylinder 1 6 B 4 A F 3 2</li> </ul>
Certifications of padlock:	Certified according to DIN EN 12320     (PIV test report 51-2/15):
	Digit         1         2         3         4           Padlock ENiQ Pro         1         1         3         3
Environmental:	<ul> <li>Padlock in combination with ENiQ Pro cylinder:         <ul> <li>Temperature:</li> <li>-25°C to +65°C</li> <li>Humidity:</li> <li>20-96% no condensation</li> <li>anticorrosive</li> <li>according to class 3 DIN EN 12320 (salt spray test 96 h)</li> </ul> </li> </ul>
	<ul> <li>Locking cylinder:         <ul> <li>Temperature:</li> <li>-25°C to +65°C (class 4 EN 15684)</li> <li>Humidity:</li> <li>20-99% no condensation (class 4 EN 15684)</li> <li>Protection class:</li> <li>IP66 (knob), IP65 (complete cylinder)</li> <li>anticorrosive</li> <li>according to class 3 DIN EN 1670 (salt spray test 96 h)</li> </ul> </li> </ul>
Administration by software:	<ul> <li>Programming by ENiQ AccessManagement software via USB- RF-Stick (See datasheet of ENiQ AccessManagement)</li> <li>Storage of max. 5 programming cards</li> </ul>





Technical Data	ENiQ <sup>®</sup> Pro Padlock
Events:	ring buffer for the latest 2.000 events
Inductive transponder interface:	<ul> <li>reading range: up to 3 cm</li> <li>frequency: 13,56 MHz</li> <li>field strength in 10 m distance: &lt; 42 dB µA/m</li> <li>in conformity with ETSI EN 300 330</li> </ul>
	• supports passive transponders according to ISO 14443 A
	<ul> <li>encryption         <ul> <li>Mifare DESFire EV1: AES-128 Bit</li> <li>Mifare Classik: Crypto-1 encryption</li> </ul> </li> <li>additionally:         <ul> <li>AES-128 Bit encryption with object specific keys</li> </ul> </li> </ul>
Radio interface (online/offline):	For offline programming by a DOM USB-RF-stick or for the online connection to a DOM RF-NetManager:
	<ul> <li>Key exchange: Curve25519–256 Bit (elliptical curve)</li> <li>Encryption: XSALSA20–256 Bit</li> <li>Signature / Authentication: Poly1305-128 Bit</li> </ul>
Transponder types:	<ul> <li>DOM Standard Tag, Premium Plus Tag, ClipTag</li> <li>ISO card transponder</li> <li>other types have to be checked</li> </ul>
Storage of access authorisations in the device:	<ul> <li>supported transponders:</li> <li>Mifare DESFire / DESFire EV1 2k, 4k, 8k</li> <li>Mifare Classic 1k, 4k</li> <li>Mifare Plus S/X 2k, 4k</li> <li>Mifare Ultralight / Ultralight C</li> </ul>
	<ul> <li>storage of maximal 5.000 authorisations in the device</li> <li>identification of the transponders by their UID or by other unique data</li> </ul>
Storage of access authorisations on the transponders:	<ul> <li>supported transponder types:</li> <li>Mifare DESFire EV1 2k, 4k, 8k</li> <li>Mifare Classic 1k</li> </ul>
	<ul> <li>other data on the transponder:</li> <li>"blacklist" with blocked transponders</li> <li>authorisation period, weekly schedule at the device</li> </ul>





## **ENiQ<sup>®</sup> Pro Padlock Technical Data** 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: $0^{\underline{00}}$ $1^{\underline{00}}$ $2^{\underline{00}}$ $3^{\underline{00}}$ ... $20^{\underline{00}}$ $21^{\underline{00}}$ $22^{\underline{00}}$ $23^{\underline{00}}$ 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 **Holidays:** storage of maximum 256 holidays or vacation periods per ٠ device definition of 3 different kinds of holidays/vacations begin / end as from / to date



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