

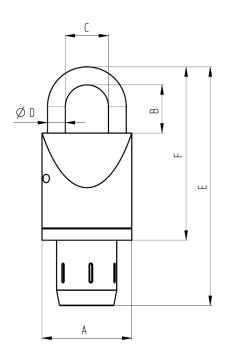




Technical Data	DOM Tapkey Pro BLE Padlock
General:	Padlock without forced closing
Technology:	<ul> <li>13,56 MHz (RFID / NFC)</li> <li>2,4 GHz (BLE: Bluetooth Low Energy)</li> </ul>
Material:	<ul> <li>Housing: Solid brass, surface matt chrome plated</li> <li>Bottom plate: Polyamide (PA66)</li> <li>Shackle: 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, grade 1)</li> <li>Cylinder: at least 100,000 cycles (according DIN EN 1303 and EN 15684 grade 6)</li> </ul>
Mechanical strength:	<ul> <li>Strength of shackle:         <ul> <li>Tensile strength:</li> <li>Torsional strength:</li> <li>Cutting strength:</li> </ul> </li> <li>≥ 15 kN (Ch. 5.5.5, DIN EN 12320)</li> <li>≥ 200 Nm (Ch. 5.5.6, DIN EN 12320)</li> <li>≥ 25 kN (Ch. 5.5.7, DIN EN 12320)</li> </ul>
	<ul> <li>Impact resistance of padlock housing and shackle:</li> <li>Tested with 5 shocks at -20°C (falling mass of 1,250 g from a height of 800 mm)</li> </ul>
Dimensions:	<ul> <li>Width A = 56 mm</li> <li>Thickness G = 43 mm</li> <li>Length without knob F = 109 mm with knob E = 150 mm</li> <li>Shackle diameter D = 11.1 mm</li> <li>Inner shackle height B = 30 mm</li> </ul>

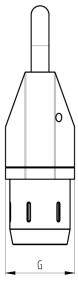
Inner shackle width

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C =

27 mm









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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 35.000 locking cycles or</li> <li>Up to 2 years in case of non-use or</li> <li>Up to 1,5 years for typical 10 locking cycles per day</li> </ul>			
	<ul> <li>Intelligent battery management:</li> <li>Multilevel temperature-compensated 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>			
Clutch duration:	• 8 seconds			
Signalling:	<ul> <li>Optical signalling by 4 multicolour LEDs</li> <li>Circular lighting segments in knob cover</li> </ul>			
Certifications:	<ul> <li>Certification of the cylinder according to EN 15684 (PIV test reports 49-4/18)</li> </ul>			
	Digit         1         2         3         4         5         6         7         8           Grade         1         6         B         4         A         F         3         2			
	<ul> <li>Certification of the padlock according to DIN EN 12320 (PIV test report 51-2/15):</li> </ul>			
	Digit         1         2         3         4           Grade         1         1         3         3			
Environmental:	<ul> <li>Padlock in combination with 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 grade 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 (grade 4 EN 15684)</li> <li>Humidity:</li> <li>20-99% no condensation (grade 4 EN 15684)</li> <li>Protection class:</li> <li>IP66 (knob), IP65 (complete cylinder)</li> <li>Anticorrosive</li> <li>according to grade 3 DIN EN 1670 (salt spray test 96 h)</li> </ul> </li> </ul>			
Programming:	<ul> <li>Programming via NFC/BLE-enabled smartphones with the following prerequisites:</li> <li>Android APP as of Android 5.0 (NFC/BLE)</li> <li>iOS APP iOS 9 or higher / iPhone 5 (BLE)</li> <li>Programming of transponders exclusively via Android APP with NFC</li> <li>Google ID or Tapkey ID required</li> </ul>			
Events:	Ring buffer for the latest 1,000 events			
05.09.2023	DOM Sicherheitstechnik GmbH & Co. KG 2 / 3			







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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 (ISO 14443 A) & NFC (ISO	/IEC 18092)
	• Encryption: Mifare DESFire EV1/EV2/EV3: AES-128 Bit	
Pluotooth Low Enorgy (PLE):		
Bluetooth Low Energy (BLE):	<ul> <li>Communication range</li> <li>Frequency:</li> <li>Transmission power:</li> <li>Conformity to ETSI EN 300 328</li> <li>Bluetooth version: 5.0 (≥ Firmwareversion 3.2)</li> </ul>	typical 10 m 2,4 GHz < 20 dBm
Encryption / security on the interfaces (NFC/BLE and backend):	<ul> <li>TLCP: Tapkey BLE Pro ← → APP ← → Tapkey Trust Servic AES-128, CMAC (NIST 800-38B), RNG (ANSI X9.31)</li> <li>Communication to backend: HTTPS, RSA with 4.096 bit, SHA 256, TLS 1.0 or higher</li> </ul>	ce:
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Transponder types:	DOM Tapkey Standard Tag	
Storage of access authorizations	<ul> <li>Access authorization on the transponder: <ul> <li>Up to 12 devices</li> </ul> </li> <li>Access authorization on Android / iOS smartphone: <ul> <li>No limit of devices</li> <li>No limit of users (Google or Tapkey IDs)</li> <li>&gt; 5 users fee-based (see license model)</li> </ul> </li> </ul>	



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