

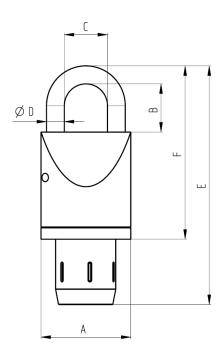




Technical Data	DOM Tapkey Pro BLE Padlock
General:	Padlock without forced closing
Technology:	 13,56 MHz (RFID / NFC) 2,4 GHz (BLE: Bluetooth Low Energy)
Material:	 Housing: Solid brass, surface matt chrome plated Bottom plate: Polyamide (PA66) Shackle: Steel (10B21), surface brilliant chrome plated 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: Torsional strength: Cutting strength: ≥ 15 kN (Ch. 5.5.5, DIN EN 12320) ≥ 200 Nm (Ch. 5.5.6, DIN EN 12320) ≥ 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 height B = 30 mm

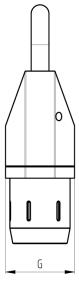
Inner shackle width

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C =

27 mm









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Power supply:	 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 35.000 locking cycles or Up to 2 years in case of non-use or Up to 1,5 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:	8 seconds			
Signalling:	Optical signalling by 4 multicolour LEDsCircular lighting segments in knob cover			
Certifications:	• Certification of the cylinder according to EN 15684 (PIV test reports 49-4/18)			
	Digit 1 2 3 4 5 6 7 8 Grade 1 6 B 4 A 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-enabled smartphones with the following prerequisites:			
	 Android APP as of Android 5.0 (NFC/BLE) iOS APP iOS 9 or higher / iPhone 5 (BLE) Programming of transponders exclusively via Android APP with NFC Google ID or Tapkey ID required 			
Events:	Ring buffer for the latest 1,000 events			
29.07.2020	DOM Sicherheitstechnik GmbH & Co. KG 2 / 3			







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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) & NFC (ISO	/IEC 18092)
	• Encryption: Mifare DESFire EV1 / EV2: AES-128 Bit	
Bluetooth Low Energy (BLE):	 Communication range Frequency: Transmission power: Conformity to ETSI EN 300 328 Bluetooth version: 4.1, 5.1 (≥ Firmwareversion 3.2) 	typical 10 m 2,4 GHz < 20 dBm
Encryption / security on the interfaces (NFC/BLE and backend):	 TLCP: Tapkey BLE Pro ← → APP ← → Tapkey Trust Servi AES-128, CMAC (NIST 800-38B), RNG (ANSI X9.31) Communication to backend: HTTPS, RSA with 4.096 bit, SHA 256, TLS 1.0 or higher 	ce:
Transporder types		
Transponder types:	DOM Tapkey Standard Tag	
Storage of access authorizations	 Access authorization on the transponder: Up to 12 devices Access authorization on Android / iOS smartphone: No limit of devices No limit of users (Google or Tapkey IDs) 5 users fee-based (see license model) 	



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