MINRIX LLC.

TECHNICAL DATA SHEET · IoT DEVICES

MR800-N / MR800-P Electronic Lock

4G GPS / BeiDou security e-locks with OLED display, tamper and cable-cut alarms, and sealing / unsealing by NFC card, reader, Bluetooth app or platform. The MR800-P adds a touch keypad for password unsealing.



Key figures

LOCK CABLE
Ø 7 mm steel
304 stainless · > 200 kg tensile

NETWORK
4G LTE
+ Bluetooth 5.2

POSITIONING
GPS / BeiDou
accuracy CEP ≤ 3 m

BATTERY
14,400 mAh
12,600 mAh low-temp option

PROTECTION
IP67
−20 … +70 °C (−40 °C option)

KEYPAD · MR800-P
Password
plus NFC, app, reader, platform

Specifications

Typical values, continued on page 2. Shaded cells differ between the two models; all other values apply to both.

FEATURE	MR800-N	MR800-P
Product	4G GPS / BeiDou security e-lock (padlock type) for containers, trucks and cargo	
Model	MR800-N — standard version	MR800-P — with touch keypad
Lock body	Approx. 91 × 142 × 48.6 mm; no keyhole on the lock body	
Lock cable	Ø 7 mm 304 stainless steel (Ø 4 mm optional), length to order. After unsealing, the side buttons release both cable ends	Ø 7 mm 304 stainless steel (Ø 4 mm optional), length to order. The cable ends separate after unsealing
Materials	Die-cast aluminium alloy body; display window of 5 mm tempered glass; silicone protective cover	
Lock ID	Unique lock number, unchanged from production to disposal	
Communication	4G LTE (network bands selected for the country or region of use) and Bluetooth 5.2	
Positioning	GNSS: BeiDou only, GPS + BeiDou or multi-mode (optional); accuracy CEP 3 m or better	
Remote functions	Location tracking, track playback, real-time recording of abnormal events and real-time lock status on the MinRix platform	
Storage	Internal flash stores up to 8,000 records when there is no network (blind spots)	
Display	OLED: battery level, lock status and signal strength	

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Specifications (continued)

FEATURE	MR800-N	MR800-P
Password	—	Touch keypad: unlock with a dynamic password or an emergency password
Sealing / unsealing	Fixed reader, handheld reader, NFC card, Bluetooth app or remote command from the platform	Fixed reader, handheld reader, NFC card, Bluetooth app, password or remote command from the platform
NFC	13.56 MHz IC card, ISO/IEC 14443A	
Tamper alarm	Alarm and platform notification when the lock body is tampered with or the cable is cut. Alarm omission rate (missed or false alarms) below 0.01 % without hardware failure	
Security strength	Dual mechanical and electronic locking; high-strength die-cast aluminium body resists impacts and vibration in daily use; cable tensile strength above 200 kg when locked	
Battery	Lithium battery 14,400 mAh (standard); 12,600 mAh low-temperature battery (optional). Smart power management keeps enough reserve to unlock at the destination	
Battery life	7 to 180 days, depending on reporting interval and other settings	
Charging	DC 5.5 mm port, 5 V / 3 A	
Operating temperature	−20 °C to +70 °C with the standard battery; −40 °C to +70 °C with the low-temperature battery	
Storage temperature	−40 °C to +85 °C	
Ingress protection	IP67	
Environment	Operates normally under low and high temperature, vibration, humidity, rain and snow, salt spray, drop, dust and electromagnetic fields (IEC 60068-2 series)	
Humidity	+40 °C at 95 % RH, non-condensing, 48 h (IEC 60068-2-78)	
Vibration	Sweep 5–300 Hz at 1 oct/min, 30 min per axis, 3 axes; 10 mm peak at 5–11 Hz, 50 m/s² at 11–300 Hz (IEC 60068-2-6)	
Shock	Half-sine 30 g, 11 ms, 3 shocks per direction on each of 3 axes; operates normally during and after the test (IEC 60068-2-27)	
Salt spray	5 % NaCl at 35 °C, 48 h, no corrosion (IEC 60068-2-11)	
EMC	Radiated immunity 24 V/m, 20–1000 MHz (GB/T 17626.3); electrostatic discharge 7 kV contact / 14 kV air (GB/T 19951)	

Product views

Front and side views show the MR800-N; the MR800-P has the same housing and adds a touch keypad. The back is identical on the MR800-N, MR800-P and MR900. The lock cable is removable and supplied in the length ordered.



FRONT VIEW
MR800-N



SIDE VIEW
MR800-N





BACK VIEW
same on MR800-N, MR800-P and MR900

Specifications are typical values and may change without notice; the binding configuration (cable, battery, network, platform) is confirmed in the MinRix quotation.

Battery life depends on the configured reporting interval and strategy, and on network coverage along the route.

Demo units and a platform demo are available on request: tech@minrix.com.