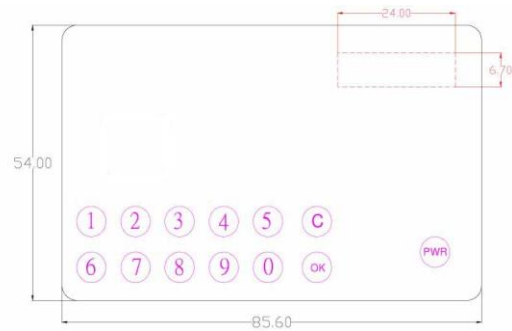


## D800 13 Keys - Datasheet

Item	Standard Product Description
MODEL	Displaycard EBA Compliant
Dimensions	ISO 7810
Warpage (+card)	1.52mm
Supported OTP Algorithms & Protocols	OATH HOTP, TOTP, OCRA-1
Supported HASH Algorithms	HMAC-SHA1, HMAC-SHA256
Radius of corners	3.18±0.3mm
Buttons number	13 Keys Keypad
Buttons type	Tactile buttons (Click Feeling technology)
Dynamic Bending	ISO/IEC 7810-1 Sec. 4.2.9 1000 Bends minimum
Dynamic Torsion	ISO/IEC 7810-1 Sec. 4.2.10 1000 Cycles minimum
ESD Protection	Should withstand +/- 10kV discharge, there must be no failure at +/- 10kV
Main Components	IC chip SDT1130, RFID Chip ISO14443A/B
Optional Components	Crypto Chip, RFID Chip, Magnetic Stripe, Laser Engraving/Thermal Transfer (Alphanumeric, Barcode, QR Code, Custom values)
Humidity tolerance	90% relative humidity at 40°C for 240h
Operating Temperature	10°C ÷ 40°C
Storage Temperature	-10°C ÷ 50°C
Battery	Manganese Dioxide Lithium, 3V, 15mAH (self-discharge <3% year)
Minimum guarantee usage	3 years/33.000 clicks - 5 years/25.000 clicks
Seeding Format	PSKC(RFC6030), Custom (on demand)
<b>DISPLAY</b>	
Display	e-Paper / E-Ink
View Angle	Almost 180°
Contrast ratio	7:1 (typical)
Colors	Black and White
Digit	6/8 Alpha-Number
Digit Size	3.2 x 4.6 mm
Open Window Size	23.75 x 6mm
Reflection	41% (typical)
Response Time	260ms (at room temperature)

## Reference Image



### Functions Buttons

The card can be configured according to one or more of the following functions:

**OTP:** Secure Strong Authentication for Home-Banking  
Algorithm: OATH Event/Time Based

**PAY:** Secure On-line Payments (i.e. Verified by Visa and SecureCode by Mastercard, enforced by Strong Authentication)  
Algorithm: OATH Time Based

**TRAN:** Secure On-line Transactions  
Algorithm: OCRA Challenge Response Time Based

**SIGN:** Plaintext Signature  
Algorithm: OCRA Challenge Response Event-Based

ISO7810  
ISO14443A/B  
ISO15693

