

# Cidron **Combi** Reader



## SECURE ACCESS CONTROL



### Secure Access Module

The Cidron reader features a contact card socket which is designed to read Secure Access Module's (SAM's), embedded on a SIM-card sized contact chip.

**The Cidron reader family is compatible with secure RFID-technologies incorporated in a robust, timeless design which making them ideally suited for both indoor- and outdoor installations in all kinds of physical access control applications.**

Cidron VG2 Combi is a reader operating at both 125kHz and 13.56MHz, making it ideal for use where several card populations with different RFID-technologies and/or frequencies should be used at the same time. The Cidron Combi allows controlled upgrading of legacy RFID-technologies utilizing 125kHz to a secure RFID technology such as MIFARE® DESFire® EV2 and allows AES128 encrypted communication between credential and reader. Cidron Combi supports 13,56MHz technologies such as iCLASS UID, MIFARE Classic®, MIFARE Plus®, MIFARE Random UID, MIFARE DESFire application and MIFARE 4 and 7-byte CSN/UID:s combined with 125kHz technologies such as Electromarine (EM4200) and HID® Proximity compatible cards.



### IP65

Cidron is a IP65 classified reader which has an operating temperature of  $-40^{\circ} - +70^{\circ}\text{C}$ .

The Cidron Combi is available both, with- or without keypad. The version with keypad has backlit keys, without keypad a symbol light, which is configurable to be always on, off or in auto mode. The reader is equipped with a clear and distinct led frame for visual feedback combined with buzzer and audible feedback. Cidron can be mounted on all surfaces including metal without affecting the reading distance to credentials.



# Technical specifications VG2



Model Name	Standard PIN	Standard NO PIN	Slim PIN	Slim NO PIN	Combi PIN	Combi NO PIN
Operating frequency	13,56MHz				13,56MHz + 125kHz	
Reading technologies	MIFARE CSN 4 byte, MIFARE UID 7 byte, MIFARE Classic, MIFARE Plus, MIFARE DESFire 0.6 and MIFARE DESFire EV1, MIFARE DESFire EV2 <sup>1</sup> and MIFARE Random UID. ICLASS UID ISO14443B. Also supports other ISO 14443 A/B <sup>2</sup> compatible cards.				Electromarine EM4200. HID® Proximity. MIFARE CSN 4 byte, MIFARE UID 7 byte, MIFARE Classic, MIFARE Plus, MIFARE DESFire 0.6 and MIFARE DESFire EV1, MIFARE DESFire EV2 <sup>1</sup> and MIFARE Random UID. ICLASS UID ISO14443B. Also supports other ISO 14443 A/B* compatible cards.	
Secure Access Module	MIFARE SAM AV2, external SIM card connection slot.					
Reading output format	Wiegand, Clock/Data, OSDP 1, OSDP 2 (including Secure channel), RS232 and RS485.					
Reading output format	24-1024 (excluding parity bits).					
Keypad output format	Wiegand 4bit, Wiegand 8bit (Dorado), Wiegand 26bit, OSDP ASCII format.					
Keypad	12 digit keypad in 4 rows of 3 keys in each row. <sup>3</sup>	—	12 digit keypad in 6 rows of 2 keys in each row. <sup>3</sup>	—	12 digit keypad in 4 rows of 3 keys in each row. <sup>3</sup>	—
Indicators	LED, Green, Red and Yellow (Bi-color). Backlight in blue color. Buzzer.					
Power supply	9 – 30VDC					
Current consumption	24VDC idle mode with heater inactive 40-60 mA <sup>4</sup> 12VDC idle mode with heater inactive 50-90 mA <sup>4</sup>					
Input/Output	4 input for LED and buzzer and 2 configurable input/output.					
Tamper alarm	Built-in mechanical tamper switch which allows for indication both, break off protection and opening of the reader.					
Operating temperature	-40° – +70°C					
Heater	Thermostat controlled embedded heater.					
Operating humidity	0 – 95% RHNC (Relative Humidity No Condensation)					
Ingress Protection Classification:	IP 65 (requires the accessory climate protection SC9901)					
Housing dimensions	L=109mm, H=25mm, W=79mm		L=141mm, H=25mm, W=48mm		L=109mm, H=25mm, W=79mm	
Configuration Methods	Configuration card, reader tool software or factory configured readers.					

<sup>1</sup> Application coding must be in accordance with EV1.

<sup>2</sup> Not all ISO14443 B cards have been implemented in the reader, please contact Seriline for more details on current status. MIFARE is a registered trademark of NXP B.V. and is used under license.

<sup>3</sup> With configurable backlight in blue color. Control features On/Off/Auto indicators. Light intensity can be adjusted.

<sup>4</sup> Current consumption differs depending on functionality used and can also be limited in the reader configuration, please consult the Cidron Standard/Combi full installation guide for current consumption, before dimensioning power supply.