

EM2100V Vandal Resistant Proximity Reader**PRODUCT DESCRIPTION**

The EM2100V reader designed and manufactured by Nortech Control Systems Limited reads Nortech's own range of 125kHz type proximity cards and tokens as well as cards and tokens supplied by several access control equipment suppliers. The data output format can be set by the installer to either standard 26-bit Wiegand or Clock & Data (ISO2). An RS232 output option is also provided.

The EM2100V is housed in marine grade stainless steel making it vandal proof.

An ideal companion to Nortech's range of access controllers, the EM2100V is the perfect choice of reader for new installations where compatibility with existing equipment isn't necessary. However, its compatibility with many standard access controllers as well as several 125kHz proximity cards and tokens also makes it a very competitive option for replacing/complementing existing equipment.

**SPECIFICATIONS****Electrical**

Supply Voltage: 6Vdc to 24Vdc
Current Requirement: < 70 mA

Physical

Dimensions (mm): 103 x 103 x 15 (H x W x D)
Material: Marine grade stainless steel - 316
Rating: IP66 - suitable for outdoor and indoor use

Environmental

Operating Temperature: -30°C - 50°C Ambient

Data Output

Wiegand: Standard 26-bit Wiegand
Clock & Data: ISO2 Clock & Data
RS232: 10 digits at 9600 bauds

Connection

Pigtail Cable Length: 0.5m
Cable Gauge: 7/0.2, 0.22mm stranded
Conductors: 8 core screened

Operational

Reading Range: Up to 50mm depending upon the type of token or card
Buzzer Operation: Controlled by host controller (active low)
LED Operation: One tricolour LED, normally red - blinks when token or card is read
Changes to green when signal received from host controller on the LED line (active low)

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Connection Details

RED	+V
Black	0V
White	Data 1/Clock
Green	Data 0/Data
Blue	RS232 serial data
Yellow	LED
Orange	Select Wiegand output (to +V) or Clock & Data output (to 0V)
Brown	Not used

Alternative Products

DP2200/V	Vandal resistant <i>DualPROX</i> ® reader
EM2100/SL	Slimline proximity reader
DP2200/SL	Slimline <i>DualPROX</i> ® reader

Ordering Information

EM2100/V	Vandal resistant proximity reader
NP-CARD-PK	Pack of 10 randomly numbered proximity cards blank on both sides, suitable for die-sublimation printing
NP-CARD-RND-xxx	Randomly numbered proximity card with custom artwork
NP-FOB-RND	Randomly numbered proximity key fob
NP-FOB-RND-xxx	Randomly numbered proximity key fob with custom artwork
NP-CARD-S	Sequentially numbered proximity cards blank on both sides, suitable for die-sublimation printing
NP-CARD-S-xxx	Sequentially numbered proximity card with custom artwork
NP-FOB-S	Sequentially numbered proximity key fob
NP-FOB-S-xxx	Sequentially numbered proximity key fob with custom artwork