

## VP1 Vandal-Resistant Proximity Reader Series

### PRODUCT DESCRIPTION

The VP1 series readers are housed in marine grade stainless steel VP1 readers are weatherproof and vandal resistant. These robust readers can be located either indoors or outdoors and are quick and easy to install.

The VP1 series is capable of reading a wide range of 125kHz type proximity cards and tokens. These may be from Nortech's own extensive range of electronic credentials, existing third party cards and tokens, or a combination of both depending upon the application. Each reader model can support one or more card technologies together with a selection of output formats. The series includes several dual technology models for simultaneously supporting two independent card technologies.

An ideal companion to Nortech's range of access controllers, the VP1 reader series offers the perfect choice of reader for new installations, while the wide choice of supported technologies and interfaces makes it an ideal cost-effective alternative for extending existing third party installations and for supporting the use of existing credentials in new access control applications.



### Features

- ◆ The series supports a wide variety of technologies to match customers' security requirements and budgets
- ◆ Some models simultaneously support two technologies providing a cost-effective means of migrating to a different technology without having to change out equipment and/or credentials
- ◆ Supports a range of data output format, making it compatible with most control systems
- ◆ Nortech offers a wide range of cards and tokens to match several reader technologies and applications
- ◆ Cards can be read at distances up to 50mm depending upon the chosen technology

### Benefits

- ◆ Finding the right reader for your application has been made much simpler by combining the flexibility of the reader series with the backup of Nortech's access control and proximity reader know-how
- ◆ Compatibility with most controllers reduces the cost of upgrades and extensions
- ◆ Offers cost savings by enabling existing cards and tokens to be re-used on new installations
- ◆ Combined with Nortech's access control systems, a flexible, robust and cost-effective solution can be configured to meet most small to medium access control applications

### Specifications

#### Electrical

Supply Voltage: 5VDC to 16VDC  
Current Requirement: 70 mA maximum

#### 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

#### Connection (Standard Version)

Pigtail Cable Length: 300mm  
Cable Gauge: 7/0.2, 0.22mm stranded  
Conductors: 8 core screened

#### Operational (Standard Version)

Reading Range: Up to 50mm depending upon technology and the type of token or card

Visual indication: Dual colour LED (red/green)  
Normally red - blinks green when token or card is read.  
Green when signal received from host controller on the LED line (active low)

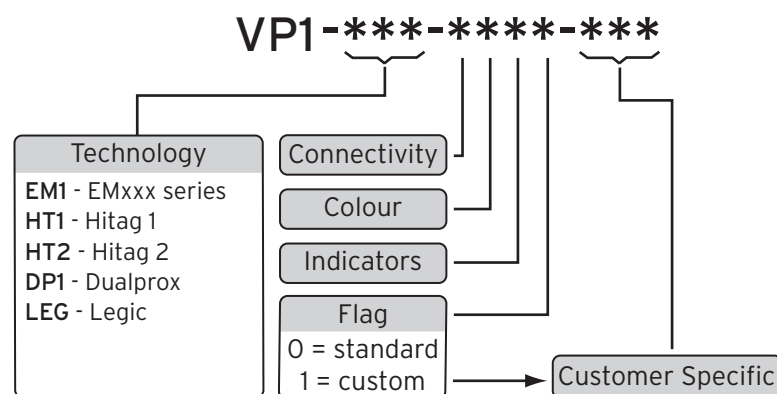
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## Standard Product Ordering

| Order Code          | Technology  | Reads as Standard  | Connection    | Data Output Formats  |
|---------------------|-------------|--|---------------|--|
| <b>VP1-EM1-0000</b> | 'EM' 125kHz | EMxxx variants, Temic/Atmel and Motorola credentials                     | 300mm pigtail | Reader selectable 26-Bit Wiegand or 10-digit Clock & Data plus RS232 (10 digits at 9600 bauds) |
| <b>VP1-HT1-0000</b> | Hitag 1     | Technogym 125kHz fobs  | 300mm pigtail | Reader selectable 26-Bit Wiegand or 10-digit Clock & Data plus RS232 (10 digits at 9600 bauds) |
| <b>VP1-HT2-0000</b> | Hitag 2     | Paxton cards and fobs plus EM variants                                   | 300mm pigtail | Reader selectable 26-Bit Wiegand or 10-digit Clock & Data plus RS232 (10 digits at 9600 bauds) |
| <b>VP1-DP1-0000</b> | DualProx    | Old style PAC fobs, new 125kHz type PAC cards and fobs plus EM variants. | 300mm pigtail | Reader selectable 26-Bit or 44-Bit Wiegand plus PAC compatible serial data                     |
| <b>VP1-LEG-0000</b> | Legic       | Secure segment from a 13.56MHz Legic Prime or Legic Advant Smart Card    | 300mm pigtail | Pass-through (format stored on card)   |

The above models are shipped as standard but there are also a number of variants readily available to match customer requirements. Special variants can be developed upon request to read customer specific card formats and/or carry customer branding.

## Product Selection and Part Numbering



### Connectivity

0 = Pig Tail  
Available with all technologies

1 = Terminal Block  
Not available with this housing

2 = Cable 3m  
Available with all technologies

### Colours

0 = Standard (Stainless Steel)

### Indicators

0 = LED is red when power connected - blinks green when token or card is read.  
Green when LED line is pulled low.  
1 = LED is red when power connected - blinks off when token or card is read.  
Green when LED line is pulled low.  
Beeper On - beeps when card is presented and when beeper line is pulled low.  
2 = LED off when power connected. Red when red LED line is pulled low, green when green LED line is pulled low, AMBER when both lines are pulled low.  
Beeper On - beeps when card is presented and when beeper line is pulled low  
3 = LED is red when power connected. Blips green when card is presented. Green when LED line is pulled low.  
Beeper Off - beeps only when beeper line is pulled low.  
4 = LED is red when power connected. Dims momentarily when card is presented. Green when green line is pulled low,  
Beeper Off - beeps only when beeper line is pulled low.  
5 = LED off when power connected. Red when red LED line is pulled low, green when green LED line is pulled low, AMBER when both lines are pulled low.  
Beeper Off - beeps only when beeper line is pulled low.

## Alternative Products

**MP1** Mullion style proximity reader series  
**SP1** Slimline proximity reader series  
**PP1** Panel-mount proximity reader series