

## PP1 Panel-Mount Proximity Reader Series

### Product Description

The PP1 series readers are designed to fit behind standard door entry panels. The readers are 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 simultaneously support one or more independent card technologies together with a selection of output formats.

An ideal companion to Nortech's range of access controllers, the PP1 reader series offers the perfect choice of reader for new installations. The wide choice of supported technologies and interfaces also makes it an excellent cost-effective option for extending existing third party installations and for supporting the use of existing cards and tokens 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 simplified by the flexibility of the reader series backed up by 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 Reqmt: 70 mA maximum

#### Physical

- Dimensions (mm): 55 x 55 x 16 (H x W x D)  
Material: ABS Plastic  
Rating: IP66 - suitable for outdoor and indoor use  
Mounting: Mounting hole centres 48mm, fits standard door entry panels

#### Environmental

- Operating Temp: -20°C to 50°C Ambient

#### Connection (Standard Version)

- 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)

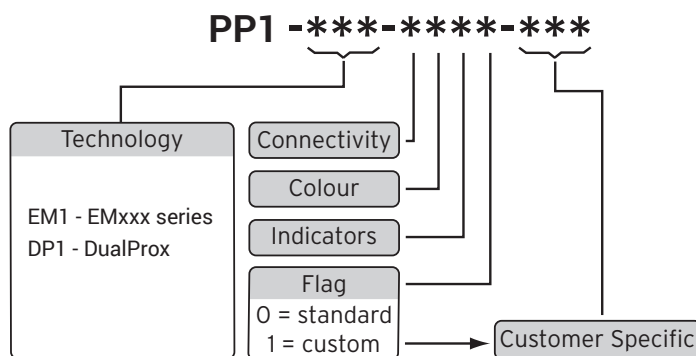
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### Standard Product Ordering

Order Code	Technology	Reads as Standard	Default Connection	Data Output Formats
PP1-EM1-0000	'EM' 125kHz	Nortech proximity cards plus similar open standard proximity cards, which include those used by most leading access control and security companies. Also reads Paxton cards and fobs.	Pigtail cable	Reader selectable 26-Bit Wiegand or 10-digit Clock & Data plus RS232 (10 digits at 9600 bauds)
PP1-DP1-0000	DualProx	Old style PAC fobs, new 125kHz type PAC cards and fobs plus EM variants.	Pigtail cable	Reader selectable 26-Bit or 44-Bit Wiegand plus PAC compatible serial data

**NOTE:** The above models are shipped as standard but Nortech can also supply a number of variants 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 = Pigtail. Available with all technologies
- 1 = Terminal Block. Not available with this housing
- 2 = Cable 3m. Not available with this housing

#### 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.

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.

### Alternative Products

- MP1** Mullion style proximity reader series
- WP1** Wall switch style proximity reader series
- WP2** Flush-mount proximity reader series
- SP1** Slimline proximity reader series
- VP1** Vandal-resistant proximity reader series