

## WP1 Wall Switch Style Reader Series

### Product Description

The WP1 series comprises wall switch style readers designed to fit standard UK wall switch back boxes. The low profile housing design suits most architectural and interior design settings, while the robust ABS polycarbonate construction allows it to be used in most working environments.

The WP1 series is capable of reading a wide range of 125kHz and 13.56MHz 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 WP1 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
- ▶ Dual technology readers provide 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
- ▶ Flexible connection options. Can be supplied with cable, pigtail or terminal connectors
- ▶ Elegant, low profile housing that can be branded to customers' requirements
- ▶ Nortech offers a wide range of cards and tokens to match several reader technologies and applications
- ▶ Cards can be read at distances up to 100mm 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
- ▶ Easy installation and an elegant design enables installers to add a professional finish to any access control project
- ▶ 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: 250 mA maximum

#### Physical

- Dimensions (mm): 90 x 90 x 18 (H x W x D)  
 Colour: Charcoal grey (standard version)  
 Material: ABS polycarbonate  
 Rating: IP65 - suitable for outdoor and indoor use

#### Environmental

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

#### Connectivity (Cable Versions)

- Cable Gauge: 7/0.2, 0.22mm stranded  
 Conductors: 8 core screened

#### Operational (Standard Version)

- Reading Range: Up to 100mm depending upon technology and the type of token or card
- Audible indication: Bleeper controlled by host controller (active low)
- 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)

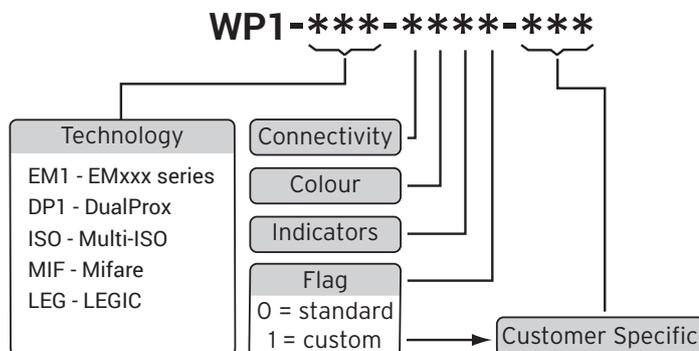
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### Standard Product Ordering

Order Code	Technology	Reads as Standard	Default Connection	Data Output Formats
WP1-EM1-0000	'EM' 125kHz	Nortech proximity cards plus similar open standard cards, including 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).
WP1-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.
WP1-ISO-1000	Multi-ISO	Serial numbers of 13.56MHz (ISO15693 and ISO 14443A standards) technologies including LEGIC Advant, Mifare, iCLASS, iCODE and Tag-it 2.	Terminal block	Reader selectable 32-Bit Wiegand or 10-digit Clock & Data plus RS232 (10 digits at 9600 bauds).
WP1-LEG-1001-010	Multi-ISO	Serial numbers of 13.56MHz (ISO15693 and ISO 14443A standards) technologies as above plus LEGIC Prime.	Terminal block	Reader selectable 34-Bit Wiegand or 10-digit Clock & Data plus RS232 (10 digits at 9600 bauds).
WP1-MIF-1001-xxx	Mifare	Customer specific data from a secure sector on a 13.56MHz Mifare smart card.	Terminal block	Customer specific.
WP1-LEG-1001-xxx	LEGIC	Customer specific data from a secure segment on a 13.56MHz LEGIC Prime or LEGIC Advant smart card.	Terminal block	Customer specific.

**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. Available with all technologies
- 2 = Cable 3m. Available with all technologies

#### Colours

- 0 = Standard (Charcoal Grey)
- 1 = Black
- 2 = White
- 3 = Chrome

#### 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. Blinks 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.