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

◆ 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

◆ 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 made much simpler by combining the flexibility of the reader series with the backup of 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 Requirement:	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 Temperature:	-20°C to 50°C Ambient

Connectivity (Cable Versions)
Cable Gauge:	7/0.2, 0.22mm stranded
Conductors:	8 core screened

Operational (Standard Version)
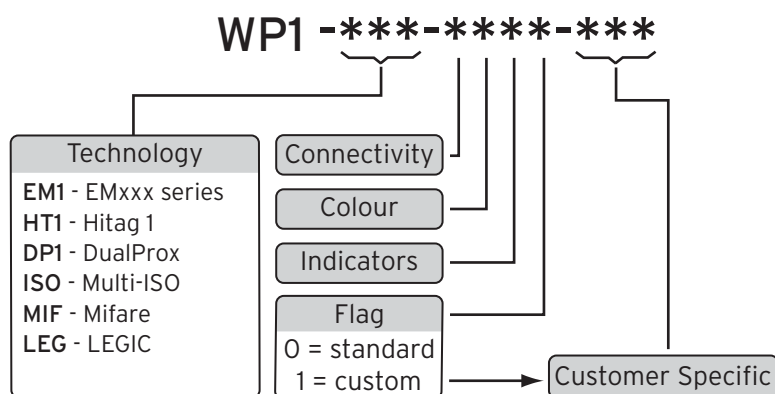|	
Reading Range:	Up to 100mm depending upon technology and the type of token or card
Audible indication:	Bleeper controlled by host controller (active low)
Visual indication:	Dual colour LED (red/green) Normally red - blinks green when token or card is read. Green when signal received from host controller on the LED line (active low)

LEGIC innovation in ID technology   *Dual Prox*®   **mifare**®

Standard Product Ordering

Order Code	Technology	Reads as Standard	Connection	Data Output Formats
WP1-EM1-1000	'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.	Terminal Block	Reader selectable 26-Bit Wiegand or 10-digit Clock & Data plus RS232 (10 digits at 9600 bauds)
WP1-HT1-1000	Hitag 1	Technogym 125kHz fobs	Terminal Block	Reader selectable 26-Bit Wiegand or 10-digit Clock & Data plus RS232 (10 digits at 9600 bauds)
WP1-DP1-1000	DualProx	Old style PAC fobs, new 125kHz type PAC cards and fobs plus EM variants.	Terminal Block	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
WP1-MIF-1000	Mifare	Secure sector from a 13.56MHz Mifare proximity card.	Terminal Block	Pass-through (format stored on card)
WP1-LEG-1000	LEGIC	Secure segment from a 13.56MHz LEGIC Prime or LEGIC Advant Smart Card	Terminal Block	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

WP1 -***-****-***

Technology
EM1 - EMxxx series
HT1 - Hitag 1
DP1 - DualProx
ISO - Multi-ISO
MIF - Mifare
LEG - LEGIC

Connectivity

Colour

Indicators

Flag
0 = standard
1 = custom

Customer Specific

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.
Bleeper On - bleeps when card is presented and when bleeper 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.
Bleeper On - bleeps when card is presented and when bleeper line is pulled low.

3 = LED is red when power connected. Blinks green when card is presented. Green when LED line is pulled low.
Bleeper Off - bleeps only when bleeper line is pulled low.

4 = LED is red when power connected. Dims momentarily when card is presented. Green when green line is pulled low.
Bleeper Off - bleeps only when bleeper 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.
Bleeper Off - bleeps only when bleeper line is pulled low.