



Wiegand Registration Reader

Product Specification Catalogue

The **Wiegand Deskmount Registration Reader** is a compact, robust 125 kHz Passive Proximity Reader. A conveniently placed link allows you to use the Wiegand Registration Reader in OEM applications using 26 or 44-bit Wiegand protocol.

This Registration Reader is intended to provide a Wiegand input to ImproX Registration Interfaces.

The design of the Wiegand Registration Reader allows use with the following Registration Interfaces, in the IXP120, IXP220, IXP300 and IXP400 systems:

- ImproX (RH) Registration Interface
- ImproX (RS) Registration Interface
- ImproX (RL) Registration Interface

You may only use the Wiegand Registration Reader in an indoor environment.

The Wiegand Registration Reader includes a single tone, single volume Buzzer and a tri-coloured Red, Green or Amber Status LED. The functions of the Buzzer and Status LED are controlled internally.

Key Features

- Enrolment of various tag types: Slim Tags, Omega Tags, Impro Trinary Tags (1074 and 2074) and HID 125 kHz Tags.

NOTE: *HID is a registered trademark of HID Global Corporation (an ASSA ABLOY Group Brand).*

- A single tri-coloured Red, Green or Amber Status LED.
- A 4 kHz piezo-electric Buzzer.
- An external Wiegand communications bus interface.
- Enclosure protection rating similar to IP42.
- Multiple Wiegand output formats (26-bit and 44-bit).

Wiegand

Registration Reader

WRR900-1-0-GB-XX

Reading Range (Tag)

Tag Type	Typical Range (Minimum) (mm)	Typical Range (Minimum) (in)
Slim Tag	Up to 30	Up to 1
Omega Tag	Up to 30	Up to 1
Impro Trinary Tag	Up to 20	Up to 0.80
HID 125 kHz Tags	Up to 20	Up to 0.80

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Physical Specifications

Part Number

Length	: 97 mm (4 in).
Width	: 61 mm (2 in).
Height	: 68 mm (3 in).
Approximate Weight	: 199 g (7 oz).
Housing Material	: Aluminium.
Colour	: Natural, Anodised.

Environmental Specifications

Operating Temperature	: -25°C to +60°C (-13°F to +140°F).
Storage Temperature	: -40°C to +80°C (-40°F to +176°F).
Humidity Range	: 0 to 95% relative humidity at +40°C (+104°F) non-condensing.

Approvals

CE Approval	: EN301 489-3, EN301 489-1 and EN300 330-1.
FCC Approval	: Pending.
Dust & Splash Resistance	: Designed to work in an indoor environment similar to IP42. The Wiegand Registration Reader is, therefore, not sealed against water.
Drop Endurance	: 2 m (7 ft) drop (in packaging).

Electrical Specifications

Power

Input Voltage	: 5 V DC, polarity sensitive.
Power Requirements	Current (mA) Power (W)
Supply Voltage 5 V DC all indicators on	: 50 0.35
Permissible Input Supply	
Ripple Voltage (Max)	: 1 V _{PP} at 50 Hz.
Power Input Protection	: Reverse polarity protection is provided on the Reader.



Wiegand Bus

Electrical Interface	:	'0' and '1' data streams.
Data Format (Tag Information)	:	44-bit Wiegand or 26-bit Wiegand.

Factory Defaults

Default Mode	:	44-bit Wiegand Normal Mode (2 Beeps).
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User Interfaces

Status Indicator

Status LED	:	Tri-coloured Red, Green or Amber (externally visible).
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Buzzer

Tone	:	4 kHz piezo-electric, single volume, single tone.
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Related Information

For extra information relating to this product refer to the:

- Wiegand Deskmount Registration Reader Hardware Installation Manual (WRR300-0-0-GB-XX).

Ordering Information

Order the Wiegand Deskmount Registration Reader using the following Part Number:

- WRR900-1-0-GB-XX

Warranty Details

This product conforms to our Warranty details on www.impro.net.



Figure 1: Wiegand Registration Reader Overview

This Product Specification Catalogue applies to the Wiegand Registration Reader, WRR900-1-0-GB-00.
(The last two digits of the Impro stock code point to the issue status of the document or product).

WRR350-0-0-GB-03

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