GV-WTR Wiegand Converter

Introduction

GV-WTR is a converter designed for enabling the integration of a 3rd-party Wiegand or GV-RS-485 interface reader to a GV-RS-485 or Wiegand controller, respectively. Through the GV-WTR, both Wiegand / GV-RS-485-interface readers can be easily combined to a wide range of access control systems for improved versatility.

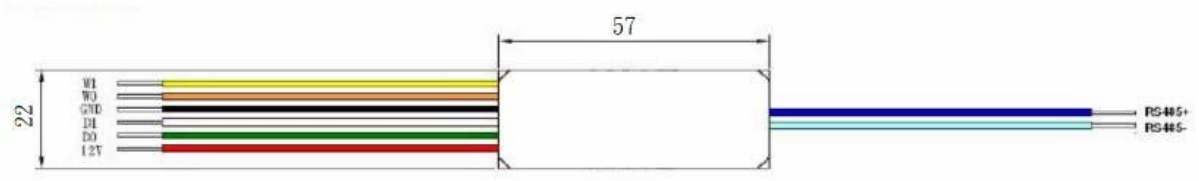
Key Features

- Support one Wiegand (3rd party) reader to be integrated to a RS-485 GV-Controller
- Compliant with GV-AS210 / 410 / 810 / 1010 / 1520 / 1620 / 2110 / 2120 / 4110 / 4111 / 8110 / 8111, GV-CS1320 and GV-EV48
- Support one GV-CR1320 (RS-485) reader to be integrated to a Wiegand controller

Packing List

1. GV-WTR
2. Warranty Card

1. Wire Definition



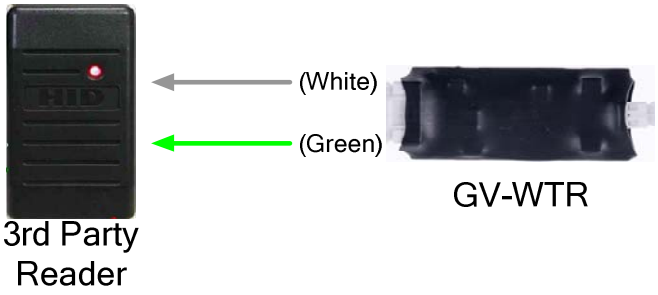
Wire Color	Function
Yellow	Wiegand Data 1 (Output)
Orange	Wiegand Data 0 (Output)
Black	GND
White	Wiegand Data 1
Green	Wiegand Data 0
Red	DC 12V
Blue	RS-485+
Light Blue	RS-485-

2. Connection

You can connect Wiegand (3rd party) readers to RS-485 GV-Controllers through GV-WTR.

2.1 Connecting with Wiegand Interface Reader

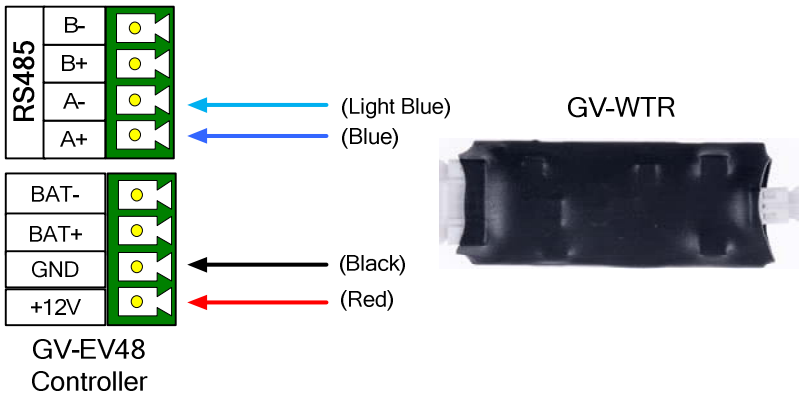
The following diagram uses a **3rd-party Wiegand Reader** as an example. Only one Wiegand reader can be connected to a GV-WTR at a time.



Wire Color	Function
White	Wiegand Data 1
Green	Wiegand Data 0

2.2 Connecting to RS-485 GV-Controller

The following diagram uses GV-EV48 controller as an example. Up to two GV-WTR converters can be connected to the RS-485 interface of a GV-Controller.



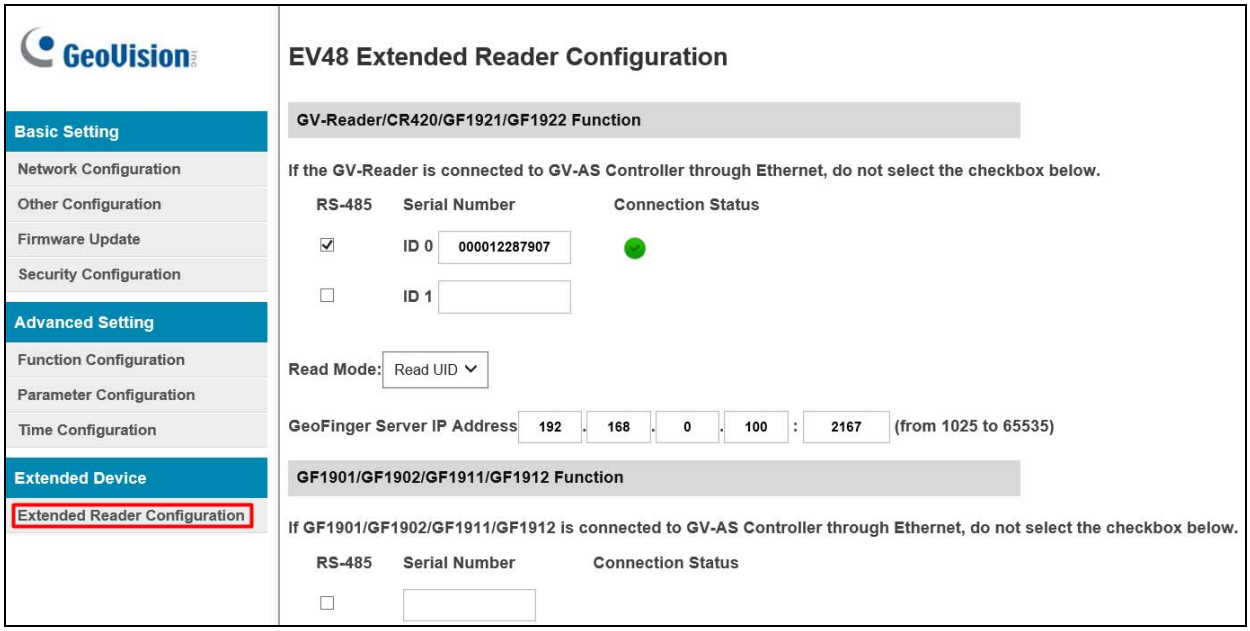
Wire Color	Function
Light Blue	RS-485 -
Blue	RS-485 +
Black	GND
Red	DC 12V

For details on connecting GV-CR1320 to a Wiegand controller, please refer to *1.7 Connecting GV-CR1320*, *GV-CR1320 User's Manual* from GeoVision's website.

2.3 Defining GV-WTR on GV-Controller Web Interface

This section explains how to define GV-WTR and readers on the Web interface of GeoVision controllers. The following uses GV-EV48 for illustration.

1. On the GV-Controller Web interface, click **Extended Reader Configuration**. This dialog box appears.



2. In the GV-Reader/CR420/GF1921/GF1922 section, select the **RS485** checkbox in front of the ID number and type the **Serial Number** on the rear panel of the GV-WTR. The ID number will be assigned to the GV-WTR.

3. Next to **Read Mode**, select **Read UID** to set the Wiegand reader connected to the GV-WTR to read UID (unique identifier) on GeoVision or 3rd-party ID Cards / Key Fobs.

4. Click **Submit**.

Note: When you click **Submit** on the Extended Reader Configuration page of the GV-Controller, all readers connected through RS-485 interface will reboot.

Specifications

System Requirements		
GV controllers supported		GV-AS210 / 410 / 810 / 1010 / 1520 / 1620 / 2110 / 2120 / 4110 / 4111 / 8110 / 8111, GV-CS1320 and GV-EV48
GV readers supported		GV-CR1320
Hardware		
CPU		8-bit Microprocessor
Power		DC 12 V , 20 mA
Wiegand Interface		1 Wiegand interface, 26 ~ 64 bit format, distance 100 m (328.1 ft), 24 AWG
Serial Interface	RS-485	1 RS-485+/- interface
	Serial line protection	8 KV ESD for all signals
Communication Parameters	Parity	N/A
	Data bit	8
	Stop bit	1
	Speed	9600 bps
Operating Temperature		0 ~ 55°C / 32 ~ 104°F
Operating Humidity		0% ~ 95% RH (non-condensing)
Dimensions (W x H x D)		57 x 22 x 7 mm (2.2 x 0.87 x 0.28 in)
Weight		22 g (0.0486 lb)
Certification		CE, FCC, RoHS

Note: Specifications are subject to change without notice.