

# BEWH

# **Compact Outdoor Fingerprint Reader/Controller**

**Operation Description** 

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#### Components

Basic Components





Wall Mount Screws (2)



Wall Mounting bracket (1)



Main Unit Mounting Screws (2)

Software CD (1)



#### Components

Optional Accessories









Secure I/O

12VDC Power Adaptor

Plastic Stand

USB Fingerprint Scanner

### **Product Description**

#### Front



#### LED

• Displays the current status with various colors.

#### **RFID Scanner**

• Place an RFID card over the scanner.

#### **Fingerprint Sensor**

• Place a finger on the surface of the sensor.

LED	Device Status
Green	Successful Authentication
Red	Failed Authentication
Pink	Processing
Flicker Blue/Sky-Blue Color per 2sec	Standard Operation
Flicker Red/Pink Color per 2sec	Device Locked
Flicker Blue/Red Color per 2sec	Discharged Internal Battery
Flicker Blue/Yellow Color per 2sec	Unable to Acquire an IP Address from the DHCP Server.
Flicker Red Color per 2sec	Unit Malfunction. Contact Your Suprema Dealer/Distributor.
Flicker Yellow Color per 2sec	Waiting for an Input
Flicker Yellow Color per 1sec	Requesting IP Address from the DHCP Server.

# **Product Description Rear and Bottom** Cables • Wiegand Input/Output Cables Power Cables • RS485 Cables • Ethernet Connector • Input Cables Relay Cables LED • Network Status LED **Network Reset Switch** • See "Resetting Network Settings (page 28)" for more details. Star-shaped screw hole for fixing a body to a metal bracket

Dimensions





## Cable Specifications

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PIN Description		Color		
1	SWIN1	BROWN		
2	SWIN0	PURPLE		
3	ETH TXP	WHITE		
4	ETH TXN	ORANGE		
5	ETH RXP	BLACK		
6	ETH RXN	YELLOW		
7	POWER IN	RED		
8	POWER GND	BLACK		
~	PoE VB2	BLUE		
9	PoE VB2	BROWN		
10	PoE VB1	RED		
10	PoE VB1	GREEN		
11	485 TRXN	YELLOW/WHITE STRIPE		
12	485 TRXP	BLUE/WHITE STRIPE		
13	485 GND	BLACK/WHITE STRIPE		
14	WIEGAND GND	WHITE/BLACK STRIPE		
15	WIEGAND D1	WHITE		
16	WIEGAND D0	GREEN		
17	NC	PINK		
18	RELAY NC	ORANGE/WHITE STRIPE		
19	RELAY COM	GREEN/WHITE STRIPE		
20	RELAY NO	GRAY/WHITE STRIPE		

#### Installation

- 1. Fix the wall mounting bracket on a wall by using wall mounting screws.
- 2. Hook the device on the wall mount bracket.

3. Fix the device to the wall mounting bracket using the star-shaped screws.





### System Configurations



# System Configurations Secure (Secure I/O) RS485 **Door Sensor** • . . . . . . . . . . . . . . . Door Lock Exit Button Secure I/O BioEntry W LAN **USB** Fingerprint РС Scanner



#### **System Configurations**

Network





- 12V  $\pm$  10%, at least 500mA.
- Comply with standard IEC/EN 60950-1.
- When sharing power with other devices, use a power supply with a higher current rating.



#### Connections

#### Ethernet Connection (Connection with HUB)

The device can be connected with a regular hub or PoE hub by connecting the Ethernet cable to the Ethernet terminal. PoE(Power over Ethernet) is an Ethernet connection of which the power is supplied from PSE(Power Sourcing Equipment) satisfying the IEEE802.3af standard.





#### Connections

#### **Ethernet Connection (Direct connection with PC)**

Use a standard CAT-5 cable to connect the device directly to a PC. BioEntry W supports auto MDI/MDIX, therefore a crossover cable is not necessary.





#### Connections



- The GND signal may be omitted if and only if the GND potential difference is less than  $\pm$ 5V.





# Connections **Relay Connection – Fail safe lock BioEntry W** ///// (20) Relay NO (Gray/White Stripe) (19) Relay COM (Green/White Stripe) (18) Relay NC (Orange/White Stripe) + Deadbolt / DC Door strike **Power supply**



#### Connections

Relay Connection - Automatic door





#### Connections

Digital Input Connection (RTE/ Door sensor)



# **BioEntry W** suprema Connections **Digital Input Connection (Alarm/ Emergency switch) BioEntry W** (13) 485 GND (Black/White Stripe) (1) Input 1 (Brown) -0 0 (13) 485 GND (Black/White Stripe) Switch #1 (2) Input 0 (Purple) 0 Switch #2

### Connections Wiegand Input **RFID Reader BioEntry W** GND (14) Wiegand GND (White/Black Stripe) Wiegand D1 (15) Wiegand D1 (White) Wiegand D0 (16) Wiegand D0 (Green) Wiegand Output **BioEntry W** Controller GND (14) Wiegand GND (White/Black Stripe) Wiegand D1 (15) Wiegand D1 (White) Wiegand D0 (16) Wiegand D0 (Green)

#### **Resetting Network Settings**

In case of forgetting network setting of the device (TCP/IP or RS-485 setting) during installation or using the device, you can initialize network setting (TCP/IP or RS-485 setting) by using the network reset switch on the back panel of the device. Please refer to the figures as below.

- 1. Turn on the device.
- 2. Press and hold the network reset switch until the device turns off. (Then, the device will restart.)

#### **Network Default Setting**

- TCP/IP Address : 192.168.0.1
- Not checked "Use Server"
- RS-485 : PC Connection, 115200bps
- 3. Modify then save the TCP/IP or RS485 settings.
- 4. Reboot the device.
- 5. Confirm the new settings.



## **Electrical Specifications**

		Min.	Тур.	Max.	Notes
Power	Voltage (V)	10.8	12	13.2	Use regulated DC power adaptor only.
	Current (mA)	-	•	250	
Switch Input	V <sub>IH</sub> (V)	-	TBD	-	
	V <sub>IL</sub> (V)	-	TBD		
	Pull-up resistance (Ω)	-	4.7k	-	The input ports are pulled up with 4.7k resistors.
TTL/ Wiegand Output	V <sub>он</sub> (V)	-	5	-	
	V <sub>oL</sub> (V)	-	0.8	-	
	Pull-up resistance (Ω)	-	4.7k	-	The outputs ports are open drain type, pulled up with 4.7k resistors internally.
Relay	Switching capacity (A)	-	-	1 0.3	30V DC 125V AC
	Switching power (resistive)	-	_	30W	DC
			-	37.5VA	AC
	Switching voltage (V)	-	-	110 125	DC AC







Suprema Inc. 16F Parkview Tower, 6 Jeongja, Bundang, Seongnam, Gyeonggi, 463-863 Korea Tel: +82-31-783-4502 | Fax: +82-31-783-4503 Email: sales@supremainc.com | Homepage: www.supremainc.com