IDENTIV

Primis Dual Port Bridge™
Installation Guide

PART NUMBERS	PRIMIS	FR-50-40-2, 50-40-2L	ENTERPHONE	FR-50-24-2

PHYSICAL SPECIFICATIONS

Length	76 mm (3.00 in.)
Width	47 mm (1.85 in.)
Height	17 mm (0.67 in.)
Weight	34 g (1.20 oz.)
Max Readers	2
Max Input	4
Max Output	2
Certifications	**Electrical:** UL294 and UL294B **Power over ethernet:** IEEE 802af **EMI Radiation:** FCC Part 15 Class B

BASE PLATE MOUNTING

Dimension	Millimeters	Inches
A	116.07	4.57
B	78.74	3.10
C	15.24	0.60
D	85.59	3.37
E	10.16	0.40
F	58.42	2.30
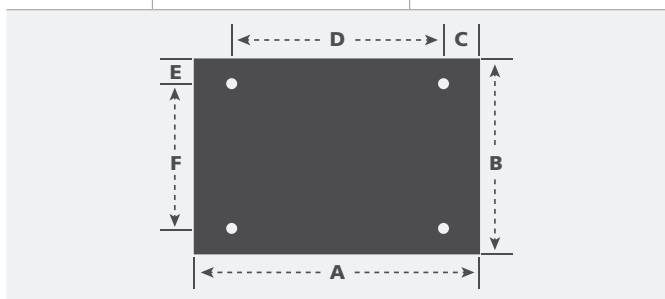
SUMMARIZED LEVELS OF ACCESS CONTROL COMPONENTS

Destructive Attack	Level I
Line Security	Level I
Endurance	Level I
Standby Power	Level I
Single Point Locking	Level I

⚙ INSTALLATION REQUIREMENTS

Primis Bridges should only be installed in dry, non-condensing environments. The ambient temperature of the environment should range between -40°C and 50°C.

Primis Encryption Bridges should only be mounted to non-conductive surfaces. Incorrect mounting may short-circuit the electronics, which will cause it to malfunction.

DC power, reader, input contact, and output device wires should be between 16-28 AWG. They should also be stripped 5.5mm to sufficiently fit the terminal blocks and ensure that they do not come in contact with each other.

✓ INSTALLATION PROCEDURE

For each of the following steps, be sure to reference the wiring diagram on page 2 for additional details:

1. Wire Wiegand Readers to the Wiegand Reader Inputs on the Primis Bridge.

2. If you have any supervised input contacts, wire them to the Digital Contact Inputs using Method 1 or Method 2.

3. If you have any non-supervised input contacts, wire them to the Digital Contact Inputs.

4. If you have any output devices, wire it to the Relay Outputs.

5. Supply power to the Primis Bridge using either or both of the following methods:

    A. A 2.25 – 5.25 W Power over Ethernet (PoE) port on an Ethernet switch connected to the Primis Bridge using a Cat5e or Cat6 cable.

    B. 12-16 Vdc & 350 mA (300 mA external & 50 mA internal) DC power connected directly to the TB1 terminal on the Primis Bridge.

6. If you are not using PoE to power your Primis Bridge, connect a Cat5e or Cat6 cable from any port on an Ethernet switch to the RJ-45 connector on the Primis Bridge. **Note:** Ethernet only supports a maximum cable length of 100 m.

7. To configure and add the Freedom Bridge to a Primis Server, refer to the Primis Solution Guide manual.

① OPTIONAL DC POWER IN

0v	DC Power Ground
+12	DC Power Input
TB1 Requirements	• 12 – 16 Vdc • 350 mA (300 mA external & 50 mA internal)

② WIEGAND READER INPUT

+12	Power Output
0v	Ground
D1	Data 1 Input
D0	Data 0 Input
Ld	LED Output
Bz	Buzzer Output
Power Output Using PoE	• 11.5 - 12.5 Vdc • 300 mA max current
Power Output Using DC	• 8.5 - 16.0 Vdc • 300 mA max current

③ RESET BUTTON

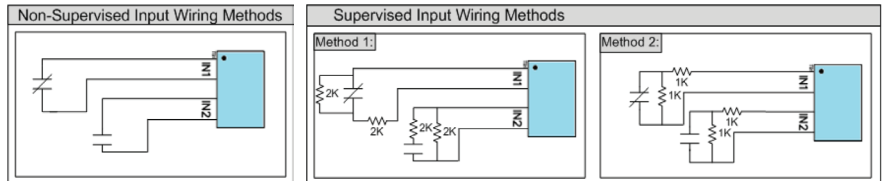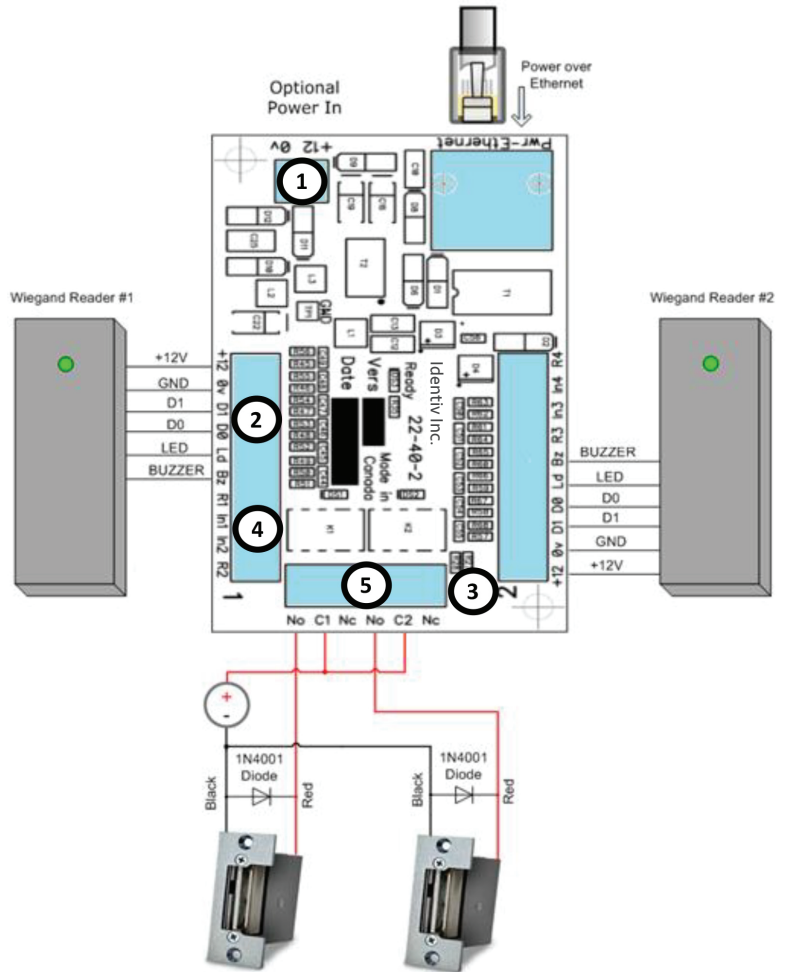Press and hold this button for 10 seconds to reset the configuration back to default.

④ DIGITAL CONTACT INPUTS

R1 - R4	Ground
In1 - In4	Non-supervised or supervised inputs 1 - 4

⑤ RELAY OUTPUT

Nc	Normally closed
C1 - C2	Common
No	Normally open
Relay Contact	DC: 30 Vdc @ 1 Adc AC: 60 Vac @ 0.5 Aac

Optional Power In

Power over Ethernet

Wiegand Reader #1

+12V
GND
D1
D0
LED
BUZZER

Wiegand Reader #2

BUZZER
LED
D0
D1
GND
+12V

Identiv Inc.
22-40-2
Made in Canada

No C1 Nc No C2 Nc

1N4001 Diode

Black Red Black Red

Non-Supervised Input Wiring Methods

IN1
IN2

Supervised Input Wiring Methods

Method 1:

2K
2K 2K 2K

IN1
IN2

Method 2:

1K
1K
1K
1K

IN1
IN2

A flashing green "Ready" LED light on the Primis Bridge circuit board indicates that the bridge is powered but not connected to a server.

A solid green "Ready" LED light indicates that the Primis Bridge has established a connection to the server and is ready to use.

⚠ CAUTION

This product is sensitive to Electrostatic Discharges (ESD).
Take precautions while handling the product by using proper grounding straps at all times.

📝 NOTE

As long as the total current of the reader plus a door strike DOES NOT EXCEED 300mA, you may power the door strike using the power out and ground from the reader Input terminal block.