

Primis Wiegand to 485 Bridge™

Installation Guide

PART NUMBERS



FR-50-40-W485

**ENTERPHONE**

FR-50-24-W485

PHYSICAL SPECIFICATIONS

Length	2 in.
Width	2 in.
Height	0.4 in.
Weight	0.026 lb
Max Readers	1
Max Input	0
Max Output	0
Certifications	Electrical: UL294 and UL294B EMI Radiation: FCC Part 15 Class B



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.

When mounting the Primis Bridge to a surface, ensure that the mounting surface is non-conductive. Causing any short-circuits on the Primis Bridge may cause it to malfunction.

DC power and input contact 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

1. Wire a Wiegand Reader to the Wiegand Reader Input on the FR-50-40-W485 Primis Bridge.
2. Using a Shielded twisted pair (STP) cable, connect the B+ and A- data terminals on the FR-50-40-W485 to the B and A data terminals on the FR-50-40-E Primis Bridge. **Note:** To ensure reader functionality, the STP cable should not exceed 300 meters.
3. Using a pair of wires, connect the Vi and 0v data terminals on the FR-50-40-W485 to the V and 0 data terminals on the FR-50-40-E Primis Bridge.
4. Connect the grounding/drain wire of the STP cable to the Sh terminal on the FR-50-40-E.
5. To indicate whether this FR-50-40-W485 is the first or second reader, set the dip switch to either 1 or 2 on the FR-50-40-W485.

485 TERMINAL BLOCK

Vi	Power Input
0	Ground
B+	Data B
A-	Data A

WIEGAND TERMINAL BLOCK

Vo	Power Output
0v	Ground
D1	Data 1
D0	Data 0
Ld	LED Output
Bz	Buzzer Output

Power Output:

- 10 – 16 Vdc
- 300 ma Max. Current

