RICE LAKE
HID Long Range
Reader

RICE LAKE HID Long Range Reader User Guide

Contents

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RICE LAKE HID Long-Range Reader

Specifications:

- **Model**: HID Long-Range Reader
- **Connection**: Wiegand Converter Box
- **Terminal Descriptions:**
    - P1-1 Beeper Input (BEEP)
    - P1-2 LED Input (GRN)
    - P1-3 Ground (GND)
    - P1-4 +VDC
    - P1-5 Unused (DRAIN)
    - P1-6 LED Input (RED)
    - P1-7 Hold Input (HOLD)

Product Usage Instructions

Wiring Connection:
The HID Long Range Reader connects to an indicator through a Wiegand Converter Box.

Wiring Schematic:
Refer to Figure 1 for the HID Long Range Reader Wiring Schematic.

Reader Connections:

| Wiegand Terminal	HID Terminal	Description
P2-1	GPIO4	RS485-Y / TXA

Wiegand Converter Box Wiring:
For detailed wiring connections, refer to Figure 3 of the manual.

HID Reader/Interface Board Installation

The HIS SignoTM Reader offers a secure, standards-based, flexible platform that stores and retrieves data, using a special card/ badge. This reader will replace the RFID reader currently installed in the kiosks.

WARNING: To avoid shock or serious injury, consult a licensed electrician for electrical installation procedures
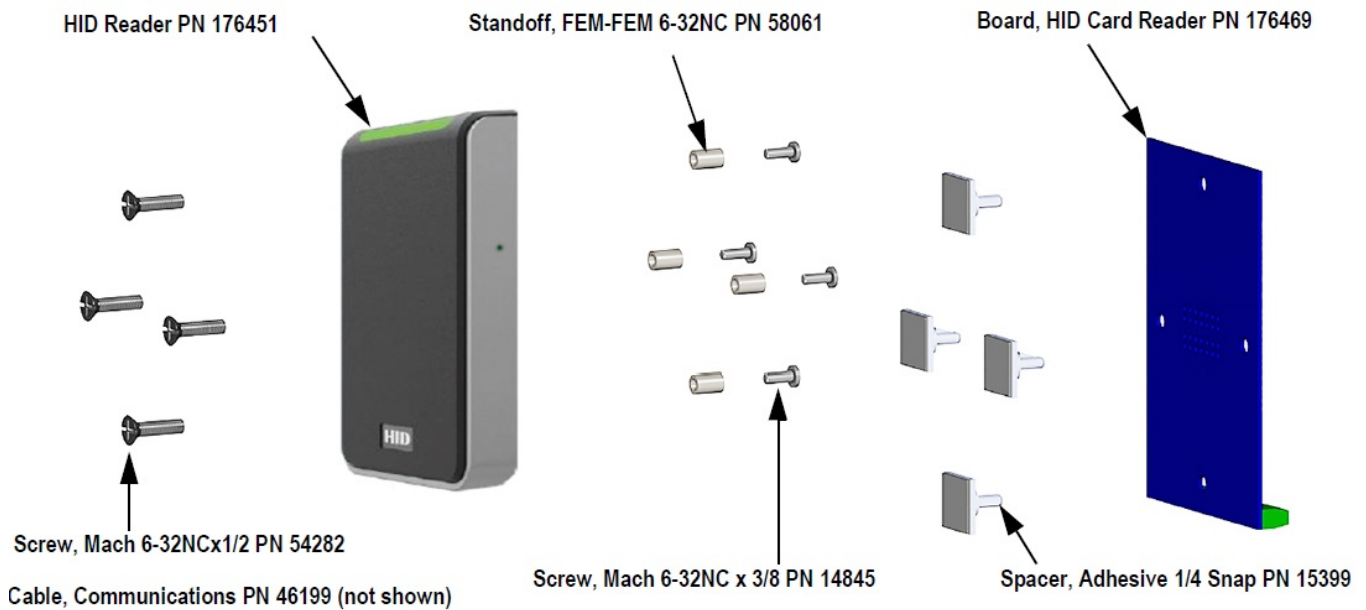
Figure 1. HID Reader/Interface Board Kit (PN 176451)

Use the following directions to install the HID reader kit.

Remove Old HID Reader (if needed)

1. Remove the existing reader from the kiosk panel.
2. Remove the screw from the bottom of the HID Reader.
3. Pull the back plate from the HID Reader.

Mounting the New Mounting Plate

1. Align new back plate with the existing holes, if possible. Holes can to be adjusted, or new holes created for mounting.
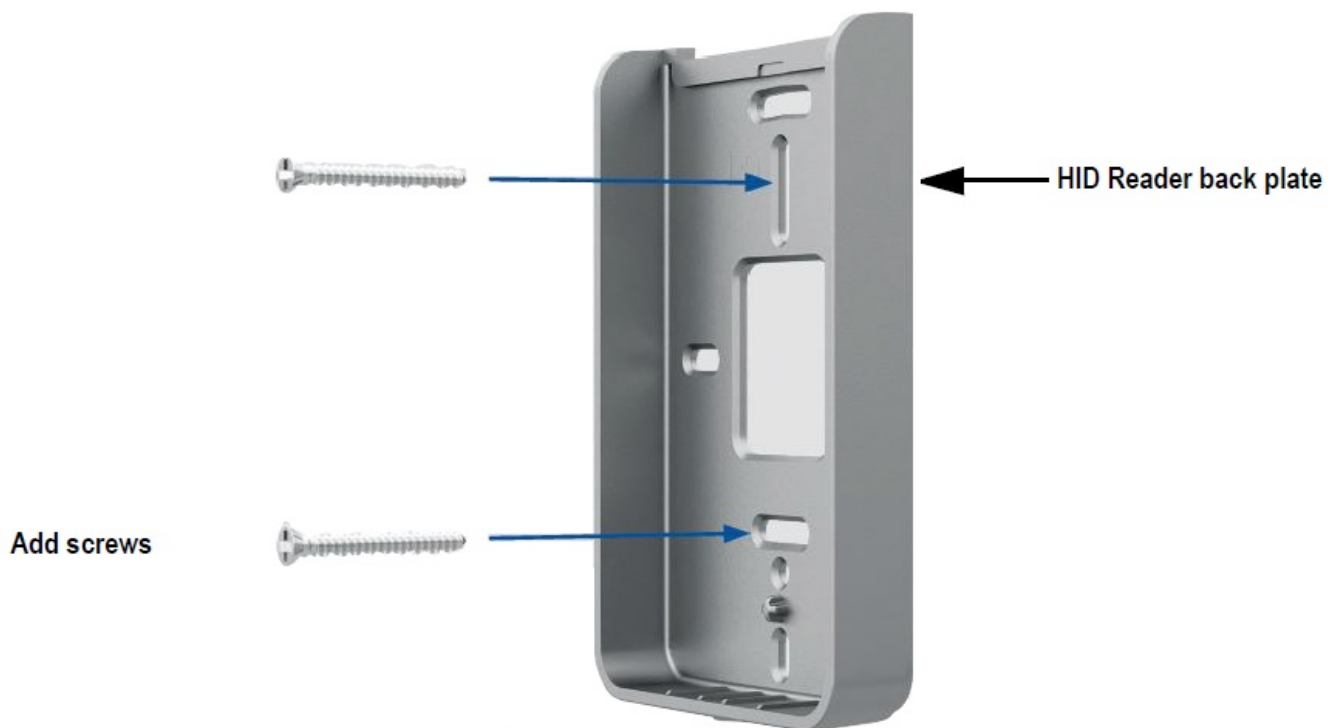
Figure 2. Mount Back Plate

- If mounting on or near metal, spacers are recommended for optimal read performance.
- Use supplied screws to ensure the correct fitting and to avoid damaging the reader or mounting plate.

2. Attach the plate to the kiosk panel, using the four screws included in the kit.

Terminal Strip Wiring

Terminal No.§	Description§
1§	+5VDC
2§	Ground §
3§	Data 1 / Clock / RS-485-A§
4§	Data 0 / Date / RS-485-B§
5§	LED Input (GRN)§
6§	Beeper Input§
7§	Hold Input / LED Input (Blue)§
8§	LED Input (Red)§
9§	Tamper 2 (RLY2§
10§	Tamper 1 (RLY1)§

Figure 3. Install HID Reader

Connecting up the reader incorrectly may permanently damage the reader.

Secure the Reader to the Mounting Plate

1. Hook the top of the reader on the top of the mounting plate.
2. Align the bottom of the reader with the bottom of the mounting plate.
3. Secure the reader to the mounting plate using the supplied 0.138-32 x 0.375″ screw.
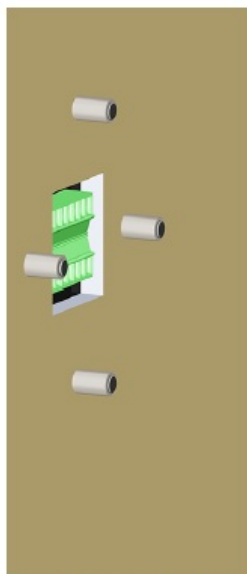

Figure 4. Secure Reader to Mounting Plate

Power and Test Reader

1. Power on the reader. The reader will beep and the LED will flash.
2. Test the reader with a credential. The reader will beep and the LED will flash.
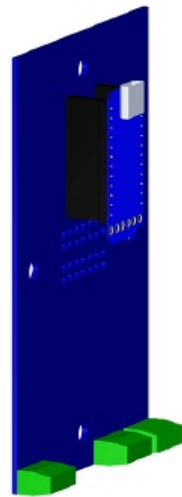

Figure 5. Power up and Test the Reader

If located elsewhere on the panel, use the adhesive spacers.

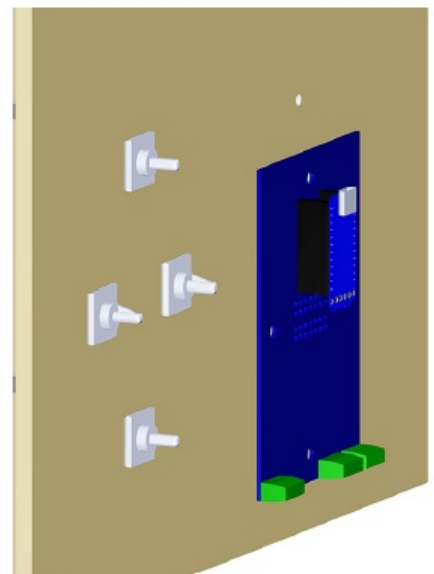**Using Standoffs and Screws**   **Using Spacers**

Figure 6. Install Interface Card

3. Wire connections as shown below and in Figure 7.

INSTALL CARD WITH USB TOWARD TOP

Inside of Front Panel

J1   J2   J3

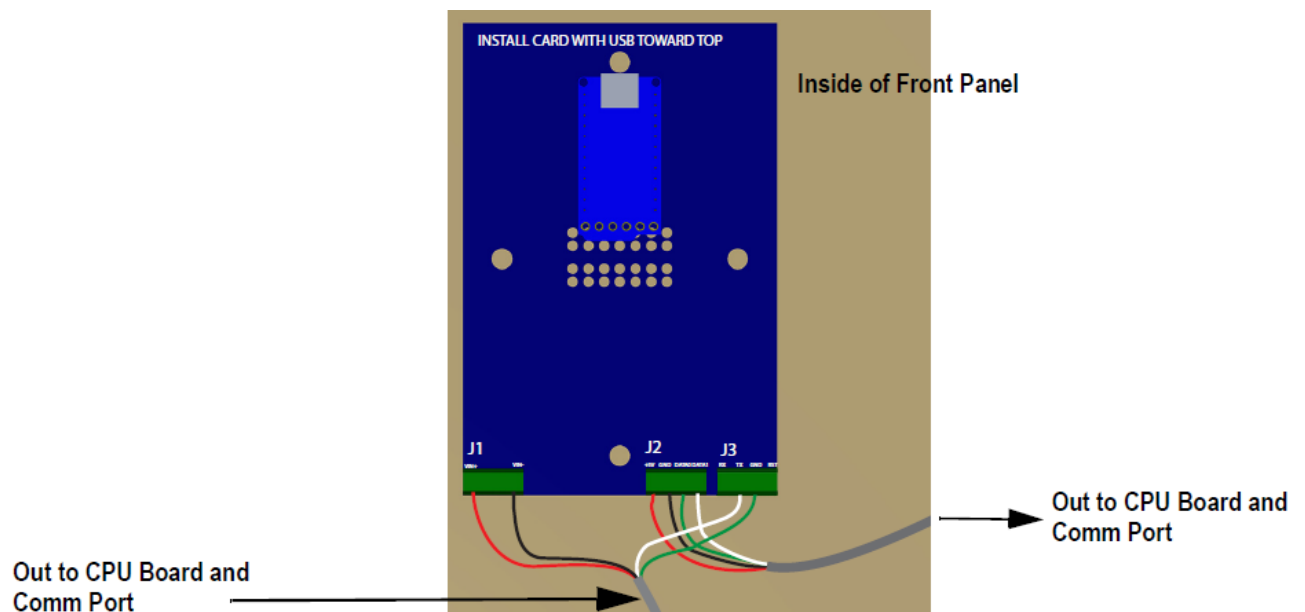Out to CPU Board and Comm Port

Out to CPU Board and Comm Port

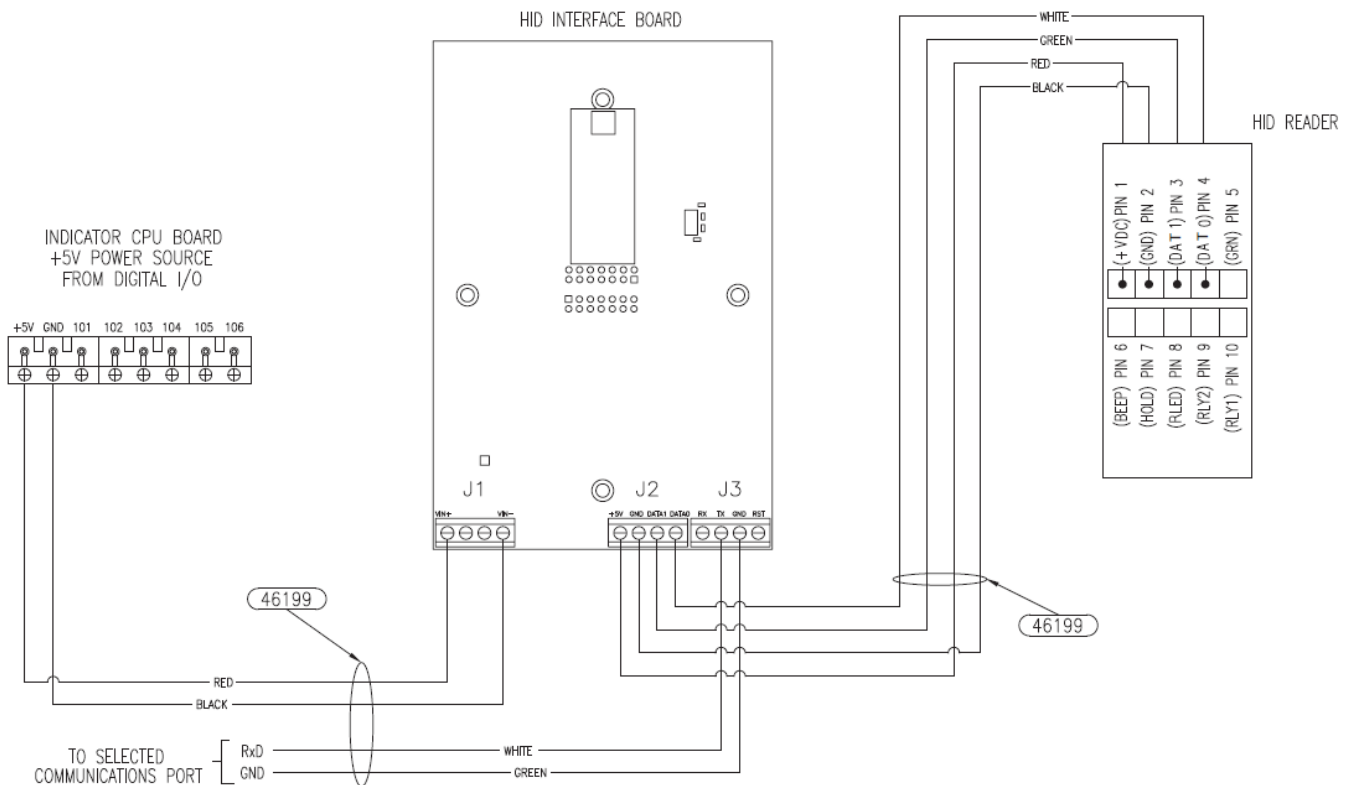Figure 7. Install Interface Board and Wire

Figure 8. Interface Board Wiring Diagram (Reference)

FCC Compliance

United States
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Canada
This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.
Approvals

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Rice Lake Weighing Systems is an ISO 9001 registered company.

230 W. Coleman St. • Rice Lake, WI 54868 • USA
U.S. **800-472-6703** • Canada/Mexico **800-321-6703** • International **715-234-9171** • Europe +31 (0)26 472 1319

www.ricelake.com

FAQs

Q: How do I connect the HID Long Range Reader to power?
A: Connect the HID READER to a customer-supplied 120 VAC power source as shown in the wiring diagram.

Documents / Resources

 [**RICE LAKE HID Long Range Reader**](#) [pdf] User Guide
HID Long Range Reader, HID, Long Range Reader, Range Reader, Reader

References

- **Rice Lake Weighing Systems**
- **User Manual**