

The RDAO-3 is 3 port, Wiegand reader distribution amplifier with optically isolated inputs and outputs for access control systems. All three ports are optically isolated from one another which prevents ground loop caused data corruption issues. The RDAO-3 Monitors the LED outputs of the access control panels and outputs an LED indication of “access granted or denied”

Reader Input

The RDAO-3 accepts one-way data standard Weigand card readers only. The RDAO-3 supports one or two LED indicators. The reader power can also be configured for 12vdc or 5 vdc via an onboard jumper. See figure 1.

Power Reader Locally Input

The Reader can be powered near the site and this input is used for that purpose. The reader power source jumpers must be set for local. See figure 1.

Reader Power

The reader power can be supplied from a local power supply or by any one of the three connected access control panels. See jumper settings in figure 1.

Data outputs

Whatever data comes out of the Wiegand reader will appear at the terminals of the D0 and D1 terminals of the access control panel outputs. Connect these outputs to the access control panel reader inputs. See figure 1. Note- no card read data is stored in the RDA1.

Panel connections

Note- 12vdc power must be supplied to the RDAO-3 form EACH connected access control panel or the RDAO-3 will not transmit card read data. Connect the 12vdc power, data 0, data 1 and LEDs as shown in figure 1.

LED signals

All LED inputs are normally high. The inputs to the RDAO-3 from the access control panels can be 5v or 12v. When a valid card read is detected by any of the 3 “green LED” inputs going low, the RDAO-3 will send a “green LED” signal to the Wiegand reader green LED terminal (logic low). If an invalid card read is detected by any or all of the 3 “red LED” inputs going low, the RDAO-3will send a “red LED” signal to the Wiegand reader red LED terminal (logic low). See figure 1 For connections. You can also tie the Door release signal via a relay from each panel to the Green LED input to display a valid card read on the reader from any panel.

Cabling

Run a #22 6 conductor shielded from the Wiegand reader to the RDAO-3. Run up to 3 each #22 6 conductor shielded cables from the RDAO-3 to each access control panel. The shield can be used as a common.

Grounding jumper

The RDAO-3 can be grounded locally to whichever power source is selected. This is useful if vicinity area lightning strikes are frequent and are problematic. Note- if grounds between the selected reader power source and this ground point are at different potentials, data corruption may occur.

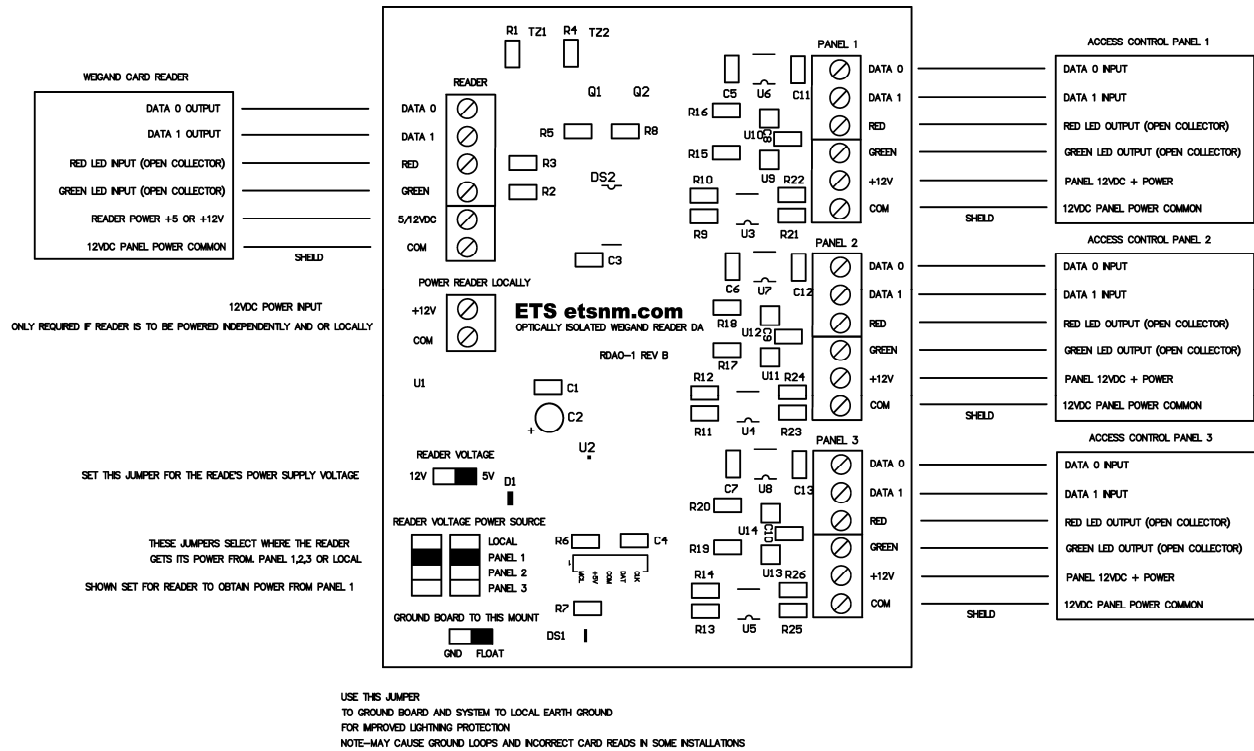


Figure 1.

Warranty

All ETS products carry a one year parts and labor warranty. This warranty does not cover damages as a result of misuse, improper handling of the unit or exposure to extreme temperatures or moisture. At its discretion, ETS reserves the right to repair or replace this unit under the conditions of the warranty. If you experience problems with your equipment call ETS at: 505-888-3923 to obtain a return authorization number. Equipment requiring repair beyond the warranty period or units that have been damaged or are not covered under the warranty can be repaired by ETS for a minimal cost under most conditions.

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