

ACCESS CONTROL READER

Cat. No. 75A00-2
Installation Instructions and User's Guide

DI-021-AX752-05C (75100-2)

INSTALLATION

ENGLISH

WARNINGS AND CAUTIONS

- Read and understand all instructions. Follow all warnings and instructions marked on the product.
- Do not use this product near water - e.g., near a tub, wash basin, kitchen sink or laundry tub, in a wet basement, or near a swimming pool.
- Never push objects of any kind into this product through openings, as they may touch dangerous voltages.
- SAVE THESE INSTRUCTIONS.

DESCRIPTION

The 75A00-2 Access Control Reader is a 125 KHz high security, digitally encrypted, 26-bit proximity card reader that connects to a serial port on an Leviton Home Control System for access control. Multiple 75A00-2 readers may be multi-dropped on a single serial interface configured for RS-485 communications.

The 75A00-2 incorporates one input for an exit button (REX), and one output for the electric door strike or magnetic lock (magnetic lock may require an isolation relay).

PLANNING

The 75A00-2 requires 4 wires for operation (2 for power and 2 for communications). The maximum distance between the 75A00-2 and the connected 12V Power Supply or Leviton 83A00 Power Hub is based on two factors: 1) the current draw of the connected door lock device, and 2) the wire gauge/type used. To maintain proper operation of the 75A00-2 and the connected door lock device, do not exceed the "Maximum Cable Length" based on the Total Current Draw and the Wire Gauge/Type per the table below (Table 1).

TABLE 1

75A00-2 Only (no Door Lock connected): 130mA maximum				
Wire Gauge	Wire Type	Number of positive conductors	Number of ground conductors	Maximum Cable Length (feet)
24	solid	1	1	233
24	solid	2	2	466
24	solid	3	3	699
22	solid	1	1	413
22	solid	2	2	826
22	stranded	1	1	381
18	solid	1	1	1000
18	stranded	1	1	963
16	solid	1	1	1000
16	stranded	1	1	1000

75A00-2 and Door Lock (800mA): 930mA maximum				
Wire Gauge	Wire Type	Number of positive conductors	Number of ground conductors	Maximum Cable Length (feet)
24	solid	1	1	37
24	solid	2	2	74
24	solid	3	3	110
22	solid	1	1	65
22	solid	2	2	130
22	stranded	1	1	60
18	solid	1	1	165
18	stranded	1	1	152
16	solid	1	1	262
16	stranded	1	1	242

75A00-2 and 79A00-1 Electric Door Strike (450mA): 580mA maximum				
Wire Gauge	Wire Type	Number of positive conductors	Number of ground conductors	Maximum Cable Length (feet)
24	solid	1	1	58
24	solid	2	2	117
24	solid	3	3	175
22	solid	1	1	103
22	solid	2	2	207
22	stranded	1	1	95
18	solid	1	1	261
18	stranded	1	1	241
16	solid	1	1	415
16	stranded	1	1	383

75A00-2 and Door Lock (1A): 1.13A maximum				
Wire Gauge	Wire Type	Number of positive conductors	Number of ground conductors	Maximum Cable Length (feet)
24	solid	1	1	30
24	solid	2	2	61
24	solid	3	3	91
22	solid	1	1	54
22	solid	2	2	108
22	stranded	1	1	50
18	solid	1	1	136
18	stranded	1	1	126
16	solid	1	1	217
16	stranded	1	1	200

NOTE: If cable with multiple conductors is used (such as Cat-5 cable), it is possible to connect multiple conductors together to achieve greater distance.

FOR CANADA ONLY

For warranty information and/or product returns, residents of Canada should contact Leviton in writing at **Leviton Manufacturing of Canada Ltd to the attention of the Quality Assurance Department, 165 Hymus Blvd, Pointe-Claire (Quebec), Canada H9R 1E9** or by telephone at **1 800 405-5320**.

LEVITON LIMITED WARRANTY

Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that products manufactured by Leviton under the Leviton brand name ("Product") will be free from defects in material and workmanship for the time periods indicated below, whichever is shorter: • **OmniPro II and Lumina Pro:** three (3) years from installation or 42 months from manufacture date. • **OmniLT, Omni IIe, and Lumina:** two (2) years from installation or 30 months from manufacture date. • **Thermostats, Accessories:** two (2) years from installation or 30 months from manufacture date. • **Batteries:** Rechargeable batteries in products are warranted for ninety (90) days from date of purchase. **Note:** Primary (non-rechargeable) batteries shipped in products are not warranted. **Products with Windows® Operating Systems:** During the warranty period, Leviton will restore corrupted operating systems to factory default at no charge, provided that the product has been used as originally intended. Installation of non-Leviton software or modification of the operating system voids this warranty. Leviton's obligation under this Limited Warranty is limited to the repair or replacement, at Leviton's option, of Product that fails due to defect in material or workmanship. Leviton reserves the right to replace product under this Limited Warranty with new or remanufactured product. **Leviton will not be responsible for labor costs of removal or reinstallation of Product.** The repaired or replaced product is then warranted under the terms of this Limited Warranty for the remainder of the Limited Warranty time period or ninety (90) days, whichever is longer. This Limited Warranty does not cover PC-based software products. **Leviton is not responsible for conditions or applications beyond Leviton's control. Leviton is not responsible for issues related to improper installation, including failure to follow written Installation and operation instructions, normal wear and tear, catastrophe, fault or negligence of the user or other problems external to the Product.** To view complete warranty and instructions for returning product, please visit us at www.leviton.com.

WEB VERSION

INSTALLATION

The 75A00-2 requires the use of one serial port on the Leviton controller. Run the cable (as determined by Table 1) from the Leviton controller or Leviton 83A00 Power Hub to the location of the Model 75A00-2 Access Control Reader and install as follows:

1. Remove the cover from the 75A00-2 by gently prying the top and bottom of the cover with a small blade screwdriver.
2. Drill a 1/2" hole in the center of the mounting location for the 75A00-2. The 75A00-2 may be mounted on a mullion or wall.
3. Insert the connections cable from the 75A00-2 into the hole. Mark the mounting holes locations on the top-right and bottom left.
4. Make the connections to the 75A00-2 as shown in Figure 2 or Figure 3.
5. Secure the 75A00-2 to the mounting surface using the supplied mounting hardware.
6. Install the cover by gently pushing it onto the reader until it snaps in place.
7. Configure the serial interface on the Leviton controller for RS-485 communications by moving the corresponding interface jumper (JP1-JP5) to the "485" position.

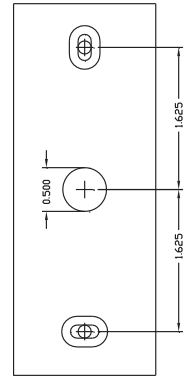


Figure 1 - Mounting the Model 75A00-2

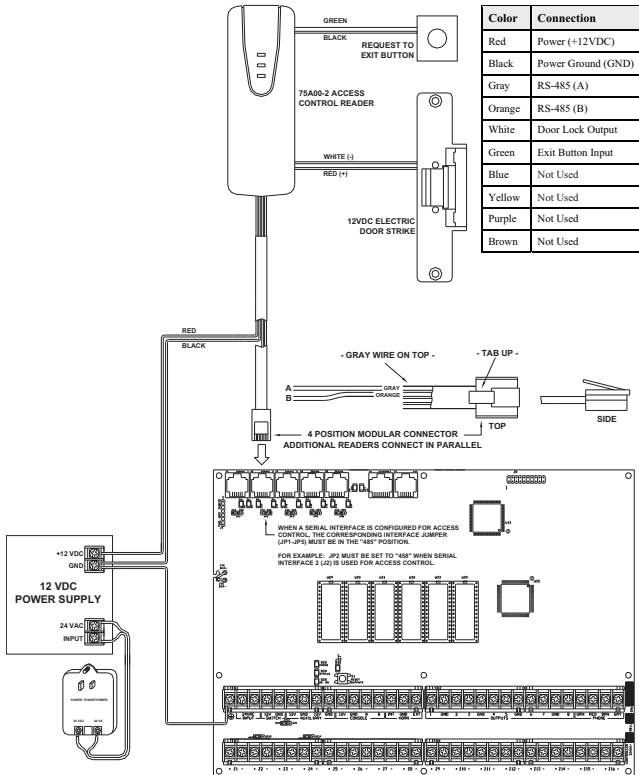


Figure 2 - Connections to the 75A00-2

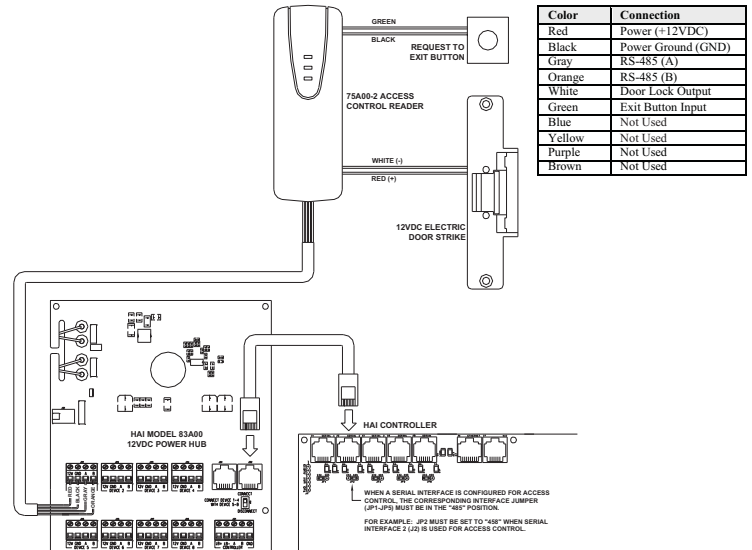


Figure 3 - Connections to the 83A00 Power Hub

SPECIFICATIONS

Read Range:	78A00-1 Cards = 4 inch; 78A00-2 Key Tags = 2 inch
Door Open Time:	5 Seconds (default), 1-60 Seconds (selectable)
Current Consumption:	130mA maximum
Communications:	RS-485
Input:	Exit Button (REX), dry contact
Lock Output:	12VDC, 1A maximum
Lock Type:	Fail Safe or Fail Secure (selectable)
LED Indicators:	Array of 3 LED indicators (Red and Green)
Beeper:	Piezoelectric
Operating Temperature:	-31°F to 140°F
Operating Humidity:	10% to 90% relative humidity, non-condensing
Dimensions:	1.8" W x 4.9" H x 0.8" D
Weight:	80g (0.18 lb.)

FCC Compliance

This equipment has been tested and found to comply with the limits for a Class A 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.

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