



Maximum RFID

UA-612™ UHF Card Reader



AWID's UA-612 UHF Access Reader is a combination of UHF generator, reader electronics, and transmit/receive antenna in a single small, attractive switchplate-type enclosure. It is easily installed on an electrical box or wall, with simple wiring like a proximity reader. The enclosure is a modern, sleek design using molded ABS engineering plastic with a deep black color.

The UA-612 reader is the link for physical access by people at doors inside and outside a building, and vehicle access at gates, using a single encoded card. The UA-612 reader reads the same UHF hand-held cards that drivers use for vehicle identification and gate control at a parking facility. These cards are fully compatible with AWID's LR-2000, LR-2200 and LR-3000 long-range UHF readers, and their "HiLo" sets.



With its simultaneous Wiegand and RS-232 data output, the UA-612 reader can be interfaced for a wide variety of access control, specialized system control, and cardholder identification applications. The reader's 3-color LED indicator and 4 kilohertz beeper are controlled by the reader itself, and also by the host system when the LED and beeper control lines are connected.

Installation of the UA-612 reader's small enclosure is quick. It fastens by 2 screws (supplied), which match the tapped holes in a single-gang electrical utility box. The reader may also be mounted on any surface. The reader's cable connects to the controller's reader-input terminals for data input and (optionally) for LED and beeper control, and to the separate power supply.

The credentials for the UA-612 UHF reader are the same hand-held cards that AWID offers for vehicle applications of LR-2000, LR-2200 and LR-3000 readers, and their "HiLo" sets. The driver inside the vehicle presents a card by hand toward the long-range reader for gate control, and later presents the same card to the UA-612 for door access in the building.

The UA-612 serves well for enrolling UHF vehicle tags into a gate-operating system.

The UA-612 reader's read range is up to 6 inches. (Mounting the UA-612 directly on metal reduces read range about 20 %.) Presenting any *AWID UHF card* to the reader causes the beeper to sound and the LED to change color. If the reader's LED control line is connected to the controller's LED terminal, an authorized card changes the LED from standby-red to green for the programmed time, indicating access-granted.

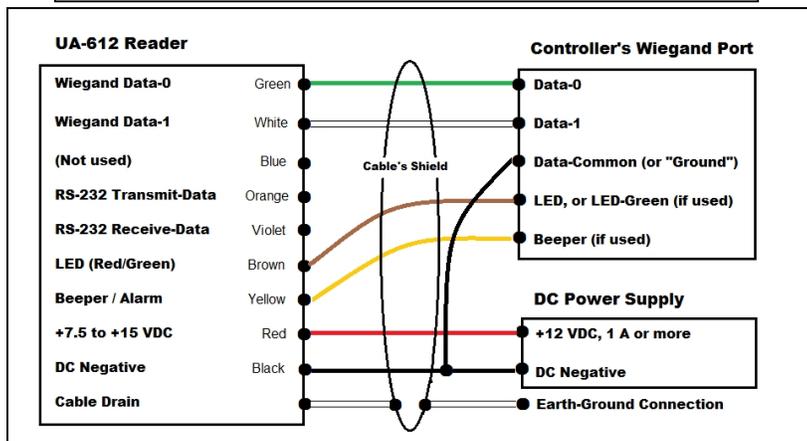
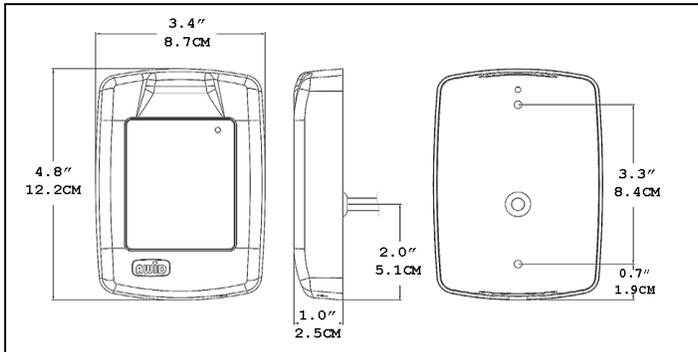
FEATURES

- People access using UHF cards ...
Same cards for vehicles and people
- Quick access at busy entrances ...
Read range up to 6 inches
- Easy mounting ...
Fastens on electrical box or wall
- Easy wiring ...
Connects like a proximity reader
- Accommodates tamper switch ...
Installer mounts pushbutton switch
- Combines car & people access ...
Interfaces to common access control
- Reader needs no programming ...
UA-612 reads all AWID UHF cards
- Compatible with access systems ...
Standard code formats & interfaces
- Protected from environment ...
*Electronics sealed from moisture **
- Visible and audible feedback ...
Reads indicated by LED and beeper
- Great appearance in all locations ...
Attractive enclosure, small size

* NOTE: WHEN INSTALLED OUTDOORS AND EXPOSED TO RAIN OR SNOW, OR TO DIRECT SUN IN A HOT ENVIRONMENT THE UA-612 MUST BE INSIDE A HOUSING WITH MINIMUM IP64 RATING.

UA-612™

UHF Card Reader



ACCESSORIES AND SUPPLIES

- LR-KIT-0-0 Installation Kit** - Use RF signal detector to indicate UHF at the site, test unit to detect data output, sample tags to test read range, and adapter cable to interface to PC's serial port. A one-time purchase.
- Mounting hardware** - Screws for single-gang electrical utility box are supplied with the UA-612 reader. Tamper switch, supplied and wired by installer, fits behind the UA-612.
- Power supply** - A separate, dedicated DC power source for *each* UA-612 reader – 12 volts (7.5 to 15 volts at the reader; a battery-charging power supply is OK); current rating 1.0 ampere or more; linear type; regulated DC output. (Do **not** power the UA-612 from the panel's DC power terminals.) Ask AWID about specifications.
- Cable for power and data** - 18 gauge, 2 conductors for power; 22 gauge, 3 to 5 conductors for data and control. Power and data may be combined in a single 18 gauge cable. For Wiegand, up to 500 feet long. Ask AWID about specifications.
- Protective housing** - To avoid rain, snow, hot sunlight, visibility or vandalism. Example: Model PCH049 Lexan housing from The Housing Company.
- Mounting devices** - Consult your supplier for utility boxes, adapter plates, poles, posts, pedestals, bollards, etc.
- Installation Sheet** - Download full instructions from AWID's Web site.

CREDENTIAL OPTIONS

- Hand-held cards** – Clamshell cards and graphics-quality UHF cards (use also for LR-2000, LR-2200 and LR-3000 readers). Ask AWID about card selection and holding instructions.

OPERATING CHARACTERISTICS

Reading Distance:

On wall or metal – up to 6 inches

Frequency Band:

902 to 928 MHz
Frequency Hopping technology

Antenna Output:

Circular-polarized RF field

Power Supply (Separate for Each Reader):

Nominal 12 volts DC supply
Rated for 1.0 ampere or more
Linear type; regulated DC output

Communications Protocol:

Wiegand and RS-232, simultaneous

Code Formats:

Programmed in AWID's UHF cards
Reads 26-bit to 50-bit codes

Cable (for Wiegand Interface):

18 gauge, 5-7 conductors, stranded
Overall shielded for *power & data*
Up to 500 feet long

PHYSICAL CHARACTERISTICS

Dimensions:

4.8 x 3.4 x 1.0 inch (12.2 x 8.7 x 2.5 cm)

Weight:

8 ounces (227 grams)

Material (Color):

ABS 2-part enclosure (black)

Cable (Integrated with Reader):

10 conductors, 18 inches long
Overall shielded, plastic jacket

Mounting (Supplied by Installer):

On wall, or single-gang utility box

ENVIRONMENT

Operating Temperature:

At 50% duty cycle -
-31°F to +150°F (-35°C to +65°C)
At 100% duty cycle -
-31°F to +115°F (-35°C to +45°C)

Operating Humidity:

0% to 95% non-condensing

Protection from Environment:

Use Lexan housing when reader is exposed to rain, snow, or bright sunlight in hot weather

CERTIFICATION

ISO-9001:2000; FCC Part 15; IC;
UL listed; RoHS compliant

DISCLAIMER: Specifications are subject to change without notice. AWID reserves the right to make changes to improve performance without impacting form, fit or function. The UA-612 model designations are Trademarks of Applied Wireless Identifications Group, Inc. All other trademarks are property of their respective owners.

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