

INSTALLATION INSTRUCTION



Product Information

AT-RBU 210 - 250 Vac; 50/60 Hz
22 - 26 Vac-dc (**DO NOT EXCEED 26Volts**)

Relays

Number: Two sets
Type: SPDT
Rating: 3 A at 250 Vac/24 Vdc

Temperature

Storage: 0°C to 60°C (32°F to 140°F)
Operating: 0°C to 50°C (32°F to 122°F)

Enclosure

NEMA 1; IP20 (NEMA 4X / IP 56 with optional enclosure)

Approvals:

Electromagnetic compatibility (EMC) 

Ordinary / Hazardous areas

The AT-RBU is approved for use in ordinary areas.
The module must be located in an Ordinary Area.

General Information

Please read these instructions carefully and keep them in a safe place (preferably close to the module) for future reference. These instructions must be followed carefully to ensure proper operation. The AT-RBU Relay Buzzer Unit has been designed specifically for use with AquiTron™ and TraceTek control panels.

The AquiTron™ AT-RBU provides a visual and audible alarm together with two sets of SPDT relay alarm contacts for use with any TraceTek / AquiTron™ controller that has a set of change over relays contacts.

The AT-RBU is provided in the same style of enclosure as the TTSIM-1A/2 system interface units and can be housed in one case next to the TTSIM.

The AT-RBU replicates the relay contacts from the TraceTek or AquiTron™ range of controllers

The unit operates on either 230Vac or 24Vac.

Connection to TraceTek and AquiTron™ panels is through three link cables (NC, COM and NO). The AT-RBU is designed for use in ordinary areas with temperatures of 0°C to 50°C (32°F to 122°F).

Storage

Keep the module in a dry place prior to installation to avoid possible damage to internal components.

Tools required

- Small flat-head screwdriver

Installation Items (not supplied)

- 35 mm DIN rail mounting strip (for wall mounts or interior of large control cabinets) and attachment hardware.
- Power and telemetry cable.
- Optional enclosure with clear cover for indoor, non-corrosive environments.

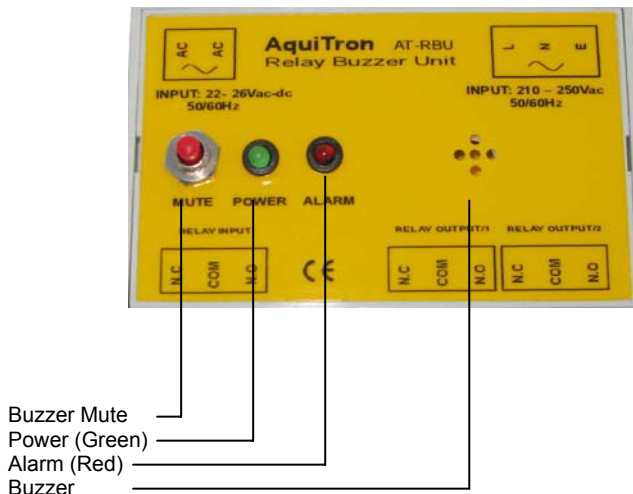
Note: To avoid damage to the AT-RBU, store the unit in its packaging until ready to install.

Selecting the mounting position

Choose a location where the module will be protected from the elements, temperature extremes or heavy vibration. The AT-RBU is designed to be snapped onto standard 35 mm DIN rail. Existing electrical or instrumentation cabinets with spare rail space make good mounting locations. It is also possible to install a small section of DIN rail directly on a wall or cabinet surface and mount the AT-RBU in any location as long as it does not create a tripping hazard or expose the AT-RBU to impact damage. The AT-RBU should be mounted within 100 m (328 ft) wire run from the controlling TTSIM, AT-SZA, AT-MZA, AT-LDM, TTDM-128 or control system host.

Important: The AT-RBU is an electronic unit. Take the following precautions to avoid damage to electronic components:

- Handle with care and avoid mechanical shock and impact.
- Keep dry.
- Avoid exposure to static electricity by touching a nearby piece of grounded equipment or water pipe prior to handling the AT-RBU.
- Avoid contact with metal filings, grease, pipe dope and other contaminants.



Connecting the Power Cable and Relays

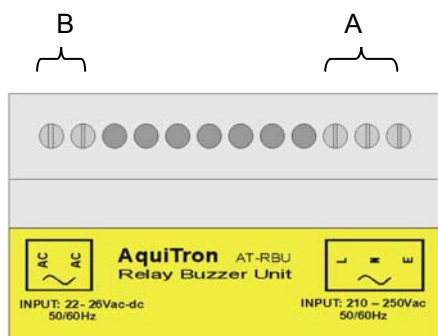
Connect the power wiring.

Note: Proper grounding/earthing is important to avoid the possibility of electromagnetic interference.

- Connect the power supply wires to the terminal block marked LNE (Live, Neutral, Earth), observing the polarity for 210 to 250Vac i Ai and to the AC-AC for 22 to 26Vac-dc iBi
- The electrical supply should be fused at no more than 3amps via an un-switched fused spur adjacent to the unit.

Note: The terminals can accept wires 12 to 24 AWG.

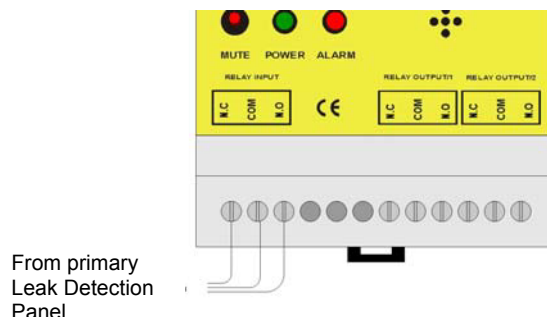
Note: Do not exceed maximum voltage.



Connecting the INPUT Relays

Connect a 3 core cable from the N.C, COM and N.O terminals on the primary control panel (TTSIM, AT-SZA, AT-MZA, AT-LDM, TTDM-128) to the corresponding INPUT terminals on the AT-RBU.

NOTE: All three cables must be connected in the correct sequence.

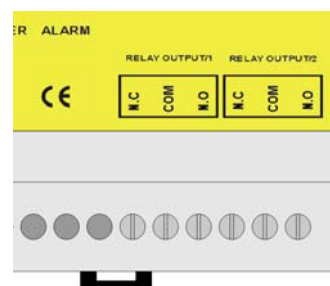


Connect the alarm/break relays

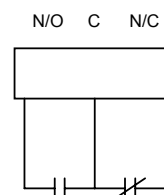
The AT-RBU has two alarm relays. Each relay provides Form C relay contacts, normally open and normally closed. The relays are **energised** to indicate an alarm condition. Each relay is independent of the next. The illustration below shows the relay status when in the alarm (energised) state.

Note: The relay terminals can accept wires 12 to 24 AWG. Cable should have a temperature rating of 65°C.

Note: Maximum load for relays is 3 amps.



Be sure to observe the contact rating listed on page 1



Commissioning

Your system should be commissioned by an authorised AquiTron™ or TraceTek representative. The system map is a crucial part of the system and should be located adjacent to the unit and within the O&M documents.

Important: Store hardware and documentation supplied with the AT-RBU in a secure place for later use (commissioning, connecting interfaces, operating).

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