

Condensed Standard Specifications

For AlarmAgent Brochure

AlarmAgent Wireless Remote Terminal Units (WRTU) are offered in 4 different models:

AA-102 AlarmAgent WRTU with NEMA 1 Enclosure

AA-102OC AlarmAgent WRTU with Open Chassis

AA-102NEMA4XP AlarmAgent WRTU with NEMA 4X Enclosure and Phantom Antenna

AA-102NEMA4XY AlarmAgent WRTU with NEMA 4X Enclosure and Yagi Directional Antenna

Electrical

Eight Digital Inputs: For connection to dry (unpowered) contacts. Open circuit voltage 5VDC; closed circuit current 2mA DC.

Two Universal Signal Inputs:

Digital: Open circuit voltage 5VDC; closed circuit current 2mA DC.

Analog: 4-20MA, single ended. Maximum voltage drop 2.5 VDC

Resolution 0.1%; absolute accuracy is 0.25%.

Two Relay Outputs: Normally Open Relays, 0.5ampere @ 120VAC

Serial Port: 9 pin D Sub male RS232 configuration port

Battery Backup: 24hours. 12 volt @ 1.2 Amp Hr

Power Requirements:

User supplied. The RTU shall operate on 12 to 24 VDC power input.

With 12 VDC input, current shall be 1-ampere peak, 200 mA average.

With 24 VDC input, current shall be 0.5-ampere peak, 100 mA average.

Battery Charging: Precision voltage controlled to maximize battery life and rapidly recharge the battery after power failure.

Power Failure: Automatic alarm for external power failure and low battery detection.

Power Consumption:

2 watts nominal

Solar Power: The RTU shall be operable directly from a 13.6 VDC solar power unit.

Average current shall be 175 ma or less

Surge Protection:

Digital inputs are opto-isolated and rated at 5,000 volts.

Universal inputs are rated at 600 watts.

Power input is protected to 1,500 watts peak. The fuse is automatically reset.

Physical

Enclosure:

Open chassis	9.6"H x 4.0" W x 2.44" D
NEMA 1 enclosure	9.6"H x 4.35" W x 2.75" D
NEMA 4X enclosure	11.5"H x 4.33" W x 5.5" D

Mounting Centers:

Open chassis	3-1/2" x 5-15/16"
NEMA 1 enclosure	3-1/2" x 6-19/32"
NEMA 4X enclosure	4" x 8-3/4"

Weight:

Open chassis	2.4 lbs with rubber duck antenna
NEMA 1 enclosure	2.7 lbs with rubber duck antenna
NEMA 4X enclosure	5.5 lbs with Phantom antenna

Environmental

Temperature range: Operating, -30 to + 70 °C (-22 to +158 °F)

Storage, -40 to + 85 °C (-40 to +185 °F)

Humidity: 0 to 95% non-condensing

Communications

Bi-directional WRTU communications are handled by the AlarmAgent.com secure server via the wireless cellular network.

System Configuration

The WRTU is configurable by authorized users via any of three possible means: via dipswitch, via a notebook computer connected to the serial port, or wirelessly via AlarmAgent.com. In most cases, a notebook computer connection is not required. By selecting from 4 templates that are optimized for duplex pump stations with or without totalizer and triplex pump stations with or without totalizer rapid installation and error proof startup are virtually guaranteed. Three additional templates are available for more general applications.

Alarm and System Messages

User defined alarm and system messages are delivered via voice calls, SMS messages, alphanumeric pagers, and email to an unlimited number of user specified destinations. Authorized personnel acknowledge alarms during voice calls, via a toll free number, email, or through the AlarmAgent.com web site.

Operator Interface

The AlarmAgent WRTU includes pushbuttons to turn the unit on or off, to arm or disarm the unit, to cause a special Test Call to be generated, and a digital input Accept function to assist in the setup of the WRTU.

LEDs are used extensively throughout to indicate the status of the following subsystems: AC power status, battery status, network service availability, a 10 segment LED bar graph for service signal strength, actively transmitting, test report, customer account status, template setting status, individual input channel state, individual relay output state, and any channel that has exceeded it's daily limit of transmissions.

Warranty

Three year parts and labor warranty, FOB factory Emeryville, CA

Field Upgrades

AlarmAgent WRTU firmware is field upgradeable.

Accessories

AA-AC	AlarmAgent 120VAC to 12VDC power supply
AA-DIN	AlarmAgent DIN Rail Mounting Kit
AA-PC15	AlarmAgent to Computer cable, 15'
AA-BB	AlarmAgent Replacement Battery Backup
AA-ADM	AlarmAgent Remote Arm / Disarm Module
AA-PAO18	AlarmAgent Cabinet mount Phantom antenna, with 18" cable
AA-PAO36	AlarmAgent Cabinet mount Phantom antenna, with 36" cable
AA-YAO18	AlarmAgent Cabinet mount YAGI antenna, with 18" cable and 30' external cable
AA-YAO36	AlarmAgent Cabinet mount YAGI antenna, with 36" cable and 30' external cable
AA-YLP	Lightning protection kit for YAGI antennas