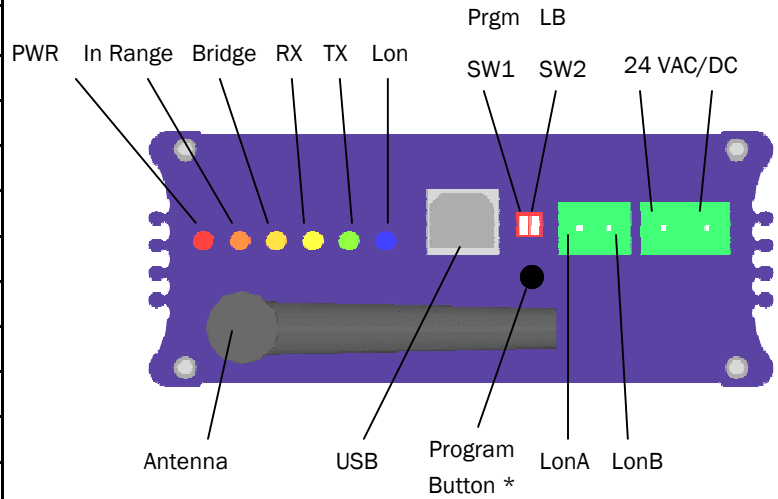




WLD241

The WLD241 is a device designed to transport LonWorks® communication data over short to extended ranges using the 2.4 GHz frequency. The WLD241 is designed to be plug-and-play, requiring no special programming tools. Using a simple software tool (provided) radios can be addressed to one another in the field. The WLD241 is a 100 mW radio, to conform with European Standards. See below for installation instructions and configuration.

| | |
|----------|--|
| Antenna | RPSMA Connector (not to exceed 6 dB gain) |
| Power | Power LED |
| In Range | Solid state on client = in range of server |
| Bridge | Bridge LED, indicating LonWorks Conversion |
| TX | Transmit indicator |
| RX | Receive indicator |
| Lon | LonWorks communication indicator |
| USB | USB program port |
| Prgm | Program mode |
| LB | Loop back mode |
| LonA | LonWorks data connection A (non polarity) |
| LonB | LonWorks data connection B (non polarity) |
| PWR | 24VAC/DC (non polarity sensitive) * see Warning |
| GND | 24VAC/DC (non polarity sensitive) * see Warning |



Operating Voltage: 12-24 VAC/DC

Power Consumption at Max Power: 1.2A @ 12VAC/DC

*** WARNING: If using AC power option, 24 VAC isolation transformer must be used! Ensure neither of the two secondaries are bonded.**

*** Program Button must be depressed and held while programming the radio.**

INSTALLATION INSTRUCTIONS:

1. Connect Lon bus as labeled in the above diagram.
2. Connect 24 VAC/DC power as labeled in the above diagram.
3. Red power Led should light up.
4. Adjust dip switch for desired operation.
5. Perform a *local commission* on the remote Lon installation.
6. Verify the Rf network communication with the In Range, TX, RX, and Lon led indicators. These led lights will flash on and off only with the presence of LonWorks communication when in the normal operating mode.
7. Lastly, perform a commission at the base station site to establish the link with the remote location.

Note: As with any Rf network, plan ahead for antenna location and placement. It is the intention of AIC Wireless to provide a reliable wireless communication device for existing LonWorks networks. However, in some conditions, reliability is determined largely by correct antenna placement, which is the responsibility of the installer. Using good judgment in antenna placement will help decrease service related issues and increase reliability. This product is NOT TO BE USED in situations where life safety issues may arise. AIC Wireless makes no claims, expressed or implied, of the products usefulness with regard to specific applications. Determination of the product's suitability for an application is the sole responsibility of the purchasing parties. In any installation application, ensure devices are properly protected from the elements by installing in appropriate enclosure. Additional surge protection devices may be necessary to protect from lightning/power surges.

Dip Switch Instructions: (note: on is in the up position, towards the label)

1. SW1 On/SW2 On Radio Program Mode
2. SW1 Off/SW2 On Normal Operating Mode
3. SW1 Off/SW2 Off No Function (*do not use*)
4. SW1 On/SW2 Off Loop Back Test Mode (*used for range testing*)

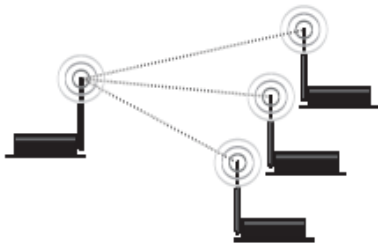
Possible Network Illustrations:

Point-to-point



One to One Addressing

Point-to-multipoint



One to Many Addressing

Broadcast Mode

(Not a mesh network)

For Support Information, contact AIC Wireless at 229-776-2510, or e-mail support@aic-wireless.com.
For Sales Information, contact AIC Wireless at 229-776-2510, or e-mail sales@aic-wireless.com.

FCC ID: KQL-AC4424

IC: CAN2268C391190A

CE

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference: (2) This device must accept any interference received, including interference that may cause undesired operation.