Introduction
The Traf-Sys/Walker Wireless OmniCounter Wireless Infrared People Counters provide a simple and elegant, yet effective way to track foot traffic through a given area or entrance. The counter consists of two parts, a transmitter and receiver, and determines traffic based using infrared beam breaks; upon beam break, the LCD counter will increment and the person will be counted as having passed through your monitored area/entrance.

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Features and Benefits
- Infrared beam-interrupt 24-bit People Counter
- Battery operated (fully wireless)
- Can operate in side-firing or front-firing mode (switch selectable)
- Integrated 6 digit LCD display indicating total counts
- Up to 20ft infrared transmission range
- Complies with part 15 of the FCC rules
- Up to 150ft (418MHz) indoor radio transmission range
- Monitors infrared beam interruptions and duration of beam interruptions
- CRC-16 error checked radio packets
- User replaceable batteries (3.6 volt lithium)
- Flush mounting bracket (included)
Mounting and Orientation

One key to your OmniCounter People Counters operating properly and efficiently is their mounting orientation and height; normal mounting height is between 36 and 52 inches. Please see the illustrations below:

Figure 1 shows a typical side-firing (door mounted) installation.

Figure 2 shows a typical front-firing (wall mounted) installation.

Proper Orientation/Alignment is required for the counters to function properly. Located on both the transmitter and receiver is a dimple that is used to allow the correct orientation. The dimples are also used to indicate which side of the enclosure the IR receiver or IR transmitter is located when using the counter in Side-Firing Mode. In Side-Firing Mode, the counters need to be mounted so that the dimples are oriented to the center. When used in Front-Firing Mode, the counter needs to be installed with either both dimples at the top or both dimples at the bottom.
Configuration and Powering On

Configuring the IR Receiver

To turn the unit on or select the mode of operation, use a paperclip to press and hold the configuration button. The LCD display will sequence through the available operation modes of the SIDE, set FRNT, set DUAL, SELFTEST, or PWR OFF. To select the desired mode, release the button when the display indicates the mode.

To put the counter into Alignment Mode, momentarily press and release the configuration button on the IR Receiver. If the IR Receiver and IR Transmitter are properly aligned, then the LED will be lit on the IR Receiver. You can exit Alignment Mode by pressing the Configuration Button again or allow it to exit Alignment Mode on its own (after 60 seconds).

To display the counts on the LCD display, swipe a magnet across the IR Receiver where the reed switch is located (opposite side of the LCD display). To reset the counts to zero, hold a magnet next to the reed switch for approximately 5 seconds.

Configuring the IR Transmitter

To select the mode of operation, use a paperclip to press and hold the configuration button. The visible LED’s will provide feedback to the available modes (Side Low Power, Side High Power, Front Low Power, Front High Power, Dual Low Power, or Dual High Power). Low Power Mode is indicated by a solid LED and High Power Mode is indicated by a flashing LED.
Troubleshooting

Below are solutions to common problems you may experience with the OmniCounter Wireless Infrared People Counters.

My sensors are not counting.
*The sensors are not generating counts when the infrared beam is being broken.*
- Ensure the power is on for both sensors.
- Ensure that your sensors’ firing designation switch is set properly to be front-firing or side-firing and ensure that the sensors are mounted to match that designation.
- Your batteries may need replaced; see Appendix A for battery replacement information.

I do not see any counts on my LCD screen.
*The onboard screen displaying counts is blank.*
- This is by design; sending a service packet or breaking the infrared beam will cause the count total to become visible. This feature was implemented to conserve battery life.

Appendix A: Battery Replacement

When it comes time to replace the batteries in your sensors, please follow this quick guide. You may purchase your batteries directly from Traf-Sys/Walker Wireless; these sensors require 3.6 volt lithium batteries.

1. Remove the battery door on both of your sensors by applying pressure downwards in the direction the arrow is pointing (towards the battery door as show below in Figure 11).
2. Using your fingernails or the included screwdriver, gently pry and remove the batteries.
3. Following the proper battery polarity designations (printed in white on the circuit board under the batteries) replace the batteries with new 3.6 volt lithium batteries.
4. Turn both units on and remount them on their brackets.
5. Test your sensors by walking through the entrance or otherwise breaking the beam path.
6. If your sensors successfully generated counts, congratulations, you have successfully replaced the batteries in your sensors. If you were unable to generate counters, please refer to the Troubleshooting section of this document then contact Traf-Sys/Walker Wireless technical support if you require further assistance.
OmniCounter Wireless Infrared People Counter

Model: OmniCounter

Figure 11

OmniCounter Accessories

- MIU-1000 or CompuCount data controller
- 3.6 volt lithium AA battery
- Visicount server software (requires data controller)
- Traf-Sys Data Hosting and Support Services (requires data controller)