



Wireless Innovations for the Production Floor

Technical Notes

VersaCall's Wireless Technology

Note 103- Rev. 0

Security of the Wireless Transmission

Both the wireless technology that VersaCall has selected for its system and the way that the wireless technology is integrated in VersaCall's VT2000 system provides one of the most secure wireless transmissions available.

The communications is one way communications only and it is not a two way wireless network. The wireless encrypted packets that are sent from the input modules transmitters have limited functions and can only perform a variety of tasks that is specific to the VersaCall System. These tasks are the setting and clearing alarms as well as sending counts. The encrypted packets are deciphered in the VT2000 Control Unit, which is completely controlled and configured by the installed site management.

In no way can anyone access the network connected to the VersaCall Service through this wireless transmission.

Even though the encrypted packet provide no useful information nor the opportunity for any network access, if anyone would even try to compromise the wireless transmission, they would have to purchase a receiver from a single very traceable source.

Reliability of the Wireless Transmission

At VersaCall, we base our products on proven 900 MHz wireless technology. Unlike most transmission paths which use only one frequency, our modules use a "Frequency Agile" technology, sending completely redundant messages on a multitude of different channels across a 10MHz band, creating the most reliable wireless system available.

In many commercial environments, ambient RF signals or signals from other wireless devices can interfere with a wireless products ability to operate effectively. But since our products are based on spread spectrum technology, reliability and range are maximized even in "noisy" environments. Sophisticated 56-bit protocol eliminates false alarms due to radio interference. Since this same protocol is currently used in security systems (with over 1.3 million products installed worldwide), not a single false alarm due to RF interference has ever been reported.