

Since radio signals are electromagnetic waves, their intensity decreases as they travel away from the source. Obstructions attenuate radio signals. This tool allows installers to determine the suitability of installation locations before equipment is installed.

Save Time and Money

The Signal Strength Meter saves time and reduces labor expenses by allowing installers to find the best installation locations for receivers and transmitters in an ILLUMRA wireless control system before installing any equipment in a building.

1 Installer (signal memory function):

The Signal Strength Meter is placed at the desired mounting position for the receiver. The Battery-free Wireless Light Switch is also placed at the desired position. After pressing the light switch the installer can go back to the Signal Strength Meter and see whether the radio signal was sufficient (green) or not received at all (red). The peak is held for 10 seconds.

2 Installers:

Person 1 operates a self-powered wireless light switch. Person 2 monitors the received field strength at the desired mounting position.



Simple Range Planning

The Signal Strength Meter is a mobile tool for measuring and indicating the received field strength of EnOcean wireless signals and disturbing radio activity at 315 MHz. This device is a must have for anyone regularly installing ILLUMRA wireless controls.

- Detect valid radio packets and display received signal strength
- Measure strength of interference
- Verify network plan by testing wireless coverage through a building prior to installation of equipment

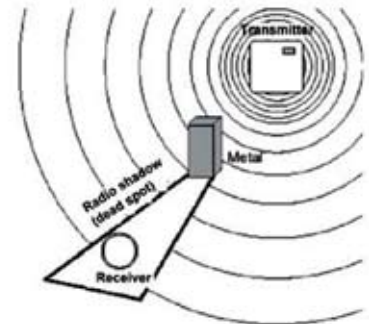
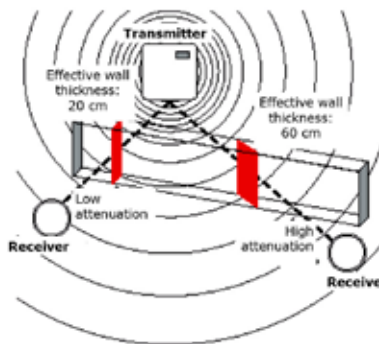
	E3R-TINHP
Range	50-150 feet (typical)
Frequency	315 MHz
Power Supply Input Rating	9 VDC battery

LED Indicators

Indicators	Meaning
	Valid telegram with good or sufficient signal strength received. An installation of transmitter and receiver at the chosen positions is possible.
	Valid telegram received but no reserve in signal strength. It is recommended not to install transmitter and receiver in these positions. The installation of a repeater should be evaluated.
	No telegram or invalid telegram received. An installation at these positions without repeater is not possible.

Optimal Positioning

Distance, transmission angle, and obstructions all affect radio signal quality. For best performance, transmit signals directly through walls and do not use ILLUMRA controls around metal.



Material	Penetration
Wood, plaster, uncoated glass	90...100%
Brick, fiberboard	65...95%
Ferrocement	10...90%
Metal, aluminum facings	0...10%

777 S. State St.
Orem, UT 84058

T: (801) 349-1200
F: (801) 653-4257
Sales@ILLUMRA.com
Info@ILLUMRA.com
www.ILLUMRA.com

This device or certain aspects thereof is protected by at least one U.S. or international patent or has at least one such patent application pending.



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