

Load Cell Central

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WSLS Wireless Interface Installation



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WSLS Interface (Wireless) Installation

The WSLS System consists of two units: the WSLS-1 Transmitter (Sensor Interface or Remote) and the WSLS-2 Receiver (Indicator Interface or Base). The system replaces the wire which normally connects a load cell to an indicator.

WSLS-1 Transmitter (Wireless Remote)

The transmitter unit has a 4 wire pigtail which should be connected to a standard strain gauge load cell.

Red	+ Excitation
Black	- Excitation
Green	+ Signal
White	- Signal
Shield	Ground

The transmitter unit should be located at least 4 inches away from large metallic surfaces and located so that it is not shielded from (i.e. has line of sight to) the receiver.

The transmitter unit is powered by 4 AA cells. The batteries should last for about 200 hours of actual operation. The batteries can be replaced by removing the four screws holding the lid in place. Care should be used to ensure that no dirt or moisture gets into the unit and that the antenna (the black wire) is not bent out of position. The lid must be replaced with the foam spacer over the batteries.

WSLS-2 Receiver (Wireless Wire Base)

The receiver unit has a four wire pigtail which should be connected to a standard indicator or load cell signal conditioner.

Red	+ Excitation
Black	- Excitation
Green	+ Signal
White	- Signal
Shield	Ground

The receiver unit should be located at least 4 inches away from large metallic surfaces and located so that it is not shielded from (i.e. has line of sight to) the transmitter.

The receiver unit is powered by the indicator. The transmitter unit consumes power as long as the receiver unit is powered. For extended transmitter battery life the receiver unit (indicator) should be turned off when not in use.

The three LEDs on the receiver unit indicate:

Yellow	Receive power on
Green	Connected to transmitter
Red	Transmitter battery low

The receiver (WSLS-2) is powered by the indicator (display). There are no batteries in the receiver. If the power to the receiver is removed (indicator turned off) the transmitter (WSLS-1) does not receive the synchronizing signal from the receiver and thus goes to sleep mode. In sleep mode the transmitter wakes up every 30 seconds to see if the receiver is powered up.

The Low Battery (Red) LED on the receiver indicates that the transmitter battery is getting low. The Power (Yellow) LED on the receiver indicates that the receiver is getting power from the indicator. The Connected (Green) LED on the receiver indicates that the radio link between the transmitter and receiver is operating.

When the batteries in the transmitter are completely discharged (several hours after the Red LED comes on) the receiver sends a large negative signal to the indicator which typically causes the indicator to show some sort of error display (depending on the type of indicator).

Specifications

WSLS Interface

Frequency	900MHz ISM band
Range	up to 100 meters line of sight
Input-Output gain	1 +/- 10%
Linearity	0.1% F.S.

WSLS-1 Transmitter

Excitation	3.3V
Input	+/-15mV max.
Batteries	4 AA
Battery Life	up to 200 hr operation
Size	2.3" x 3.2" x 6.2"
Cable	10', 4-wire shielded

WSLS-2 Receiver (a 4 channel receiver is also available)

Excitation	6 -15V
Output	3mV/V
Power	50 ma max
Size	2.3" x 3.2" x 6.2"
Cable	10', 4-wire shielded