

WL-8800 Interface (Wireless Wire) Installation

The WL-8800 System (Wireless Wire) consists of two units: the WL-8801 Transmitter (Sensor Interface or Remote) and the WL-8802 Receiver (Indicator Interface or Base). The system replaces the wire which normally connects a loadcell to an indicator.

WL-8801 Transmitter (Wireless Wire Remote)

The Transmitter unit has a 4 wire pigtail which should be connected to a standard 350 ohm, 3mV/V strain gauge loadcell.

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

The Transmitter unit should be located at least 10 cm away from large metallic surfaces and located so that it is not shielded from (ie has line of sight to) the Receiver.

The Transmitter unit is powered by 4 AA cells. The batteries should last for about 600 hours of actual operation. The batteries can be replaced by removing the four screws holding the lid in place. Care should be used to insure 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.

WL-8802 Receiver (Wireless Wire Base)

The Receiver unit has a four wire pigtail which should be connected to a standard indicator.

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

The Receiver unit should be located at least 10 cm away from large metallic surfaces and located so that it is not shielded from (ie 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:

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|--------|--------------------------|
| Yellow | Receive power on |
| Green | Connected to Transmitter |
| Red | Transmitter battery low |

The Receiver (WL-8802) 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 (WL-8801) 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 causes the indicator to show some sort of error display (depending on the type of indicator).

Specifications

WL-8800 Interface

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

WL-8801 Transmitter

| | |
|--------------|------------------------|
| Excitation | 3.3V |
| Input | +/-15mV max. |
| Batteries | 4 AA |
| Battery Life | up to 600 hr operation |
| Size | 2.3" x 3.2" x 6.2" |
| Cable | 10' 4 wire shielded |

WL-8802 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 |