

Technical Specification

Description

The WL100 is an ultra-low power, high accuracy wireless transmitter and receiver set, and applicable to any resistive bridge sensor.

The transmitter can be integrated into any load cell, scale, pressure sensor, torque sensor and resistive sensor.

The receiver can also receive data from multiple sensors (requires software update).



Parameter	Condition	Value
Wireless Frequency	Worldwide approved for emissions standards (FCC, CE, RCM, R-NZ, TELEC, ANATEL, KCC)	2.4GHz ISM Band
Wireless Range	Indoors (No metallic obstruction) Outdoors (line of sight)	70 meter 1000 meter
Wireless Security		AES-128 Encryption
Power		4x AA Battery
Battery Life	4 * Alkaline AA Battery with 350 Ω bridge and 1 Hz sampling rate	7000 Hours
Bridge Resistance Options	Up to eight 350Ω load cells. Recommended to used higher resistance (1000Ω) for longer battery life.	Minimum 40Ω
Electronics Accuracy		0.002% Full Scale
Operating Temperature Range	Maximum temperature is limited to maximum battery temperature	-10 °C to 50 °C
Storage Temperature	Battery excluded	-40 °C to 80 °C
Electronics Dimensions	Battery excluded	45 x 30 x 15 mm

Functionality

