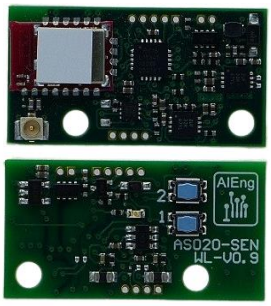
Single-Channel Wireless
Load Cell Amplifier / Strain Gauge Amplifier
AS020-SEN-WL

The AS020-SEN-WL is a versatile wireless transmitter for load cells, strain gauges, current, or voltage, operating at 2.4 GHz within the license-free band. Designed for either battery or fixed power supply applications, it features an on-board antenna with an option for external antenna connection, ideal for use with metal enclosures or to maximize transmitting range. To ensure a secure wireless link, the device also supports encryption and decryption of the transmitted/received payload.

Features

- Battery powered (2x 1.5V or 1x 9V)
- Bridge resistance 350 Ohm (or greater)
- Bridge sensitivity 0.2mV/V – 2.5mV/V
- Size 30.5mm x 16.5mm x 5.3mm height
- 750 meter range (direct line-of-sight)
- 12-bit to 16-bit conversion resolution
- 128 sps to 8 sps (samples per second)
- 2.4 GHz license-free radio band
- Optional AES 128-bit encryption



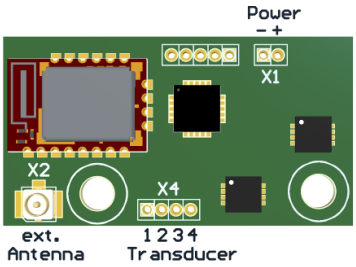
Applications

- Industrial Weighing
- Load Testing & Monitoring
- Overload Protection Systems

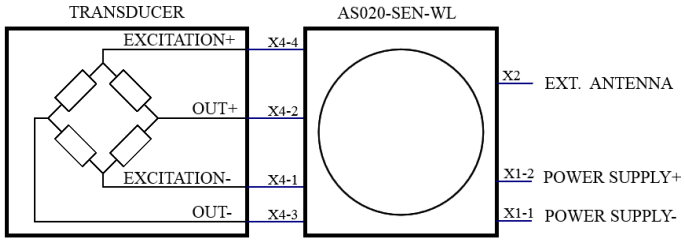
Ordering

Part number:	AS020-SEN-WL
Customer specific electrical / mechanical changes are possible – please contact us with your individual requirements.	

Board Connections



Schematic Diagram



Specifications

Parameter	Min	Typical	Max	Unit
Supply Voltage	1.2	3	12V	V
Bridge Sensitivity	0.2		2.5	mV/V
Bridge Resistance	350			Ohms
Bridge Excitation Voltage		5.0		V
Current Input Range	4		20	mA
Voltage Input Range	0	5	10	V
Operating Temperature	-40		+85	°C