

The Pulsa PI001 Wireless Industrial Weight Sensor is a heavy duty, high accuracy sensor built to measure heavy consumable inventory in harsh environments. With a standard measurement range of 1500 lbs, a safe overload rating of 4000 lbs and an optional loading ramp, the PI001 can accommodate many uses. The sensor hardware is suitable for outdoor use and includes a water proof electronics enclosure and a highly durable powder coated finish on the steel components. The sensor measurement values are broadcast wirelessly to the Pulsa Gateway. Sensor data and setup is available through Pulsa iOS, Android, and web applications.

## Applications:

- Liquid tanks: monitor liquid tank levels by installing under tank
- Other heavy consumables: pallets, IBC totes, welding wire, food & beverage bins, chemical drums, bulk materials, etc.
- Near real-time weight sensor

## Performance Details

### PI001 Wireless Weight Sensor Specifications

Measurement range	0 to 1500lbs <sup>1</sup>
Safe overload	4000 lbs
Weight accuracy	±1.00% FS
Non-linearity	±0.03% FS
Hysteresis	±0.03% FS
Repeatability	±0.03% FS
Creep	±0.02% FS / 30 Min
Operating temperature	-10 to 55°C (14 to 131°F)
Dimensions	24 (L) x 24 (W) x 3 (H) inches <sup>2</sup> 36 (L) x 36 (W) x 3 (H) inches <sup>3</sup>
Loading ramp	Optional
Platform weight	65lbs <sup>2</sup> 95lbs <sup>3</sup>
Measurement frequency	3 minutes
Battery life	5-7 yrs <sup>4</sup>
Battery	Replaceable 3.6V
Low battery warning	Yes, app notification
Platform material	Powder coated steel
Signal transmission range	0 to 350ft (0 to 100m)

#### Notes:

1. Higher weight ranges available
2. 2' x 2' platform option
3. 3' x 3' platform option
4. Battery life is based on 2 measurements every 3 minutes






Industrial Weight Sensor



Industrial Weight Sensor with Optional Ramp

## Certifications

	FCC	Granted
	CE	Granted
	UL	HazLoc Pending
	IC	Granted

## RoHS

## Use Instructions

1. Plug Pulsa gateway into power source and position within 350 feet of weight sensor
2. Ensure that the Pulsa gateway has direct line of sight with the weight sensor electronics module.
3. Download Pulsa mobile app (iOS & Android) or log into web app at [dashboard.pulsasensors.com](https://dashboard.pulsasensors.com)
4. Follow sensor and consumable set up in app

## FCC Statement

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a ClassB digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

# Pulsa Industrial Weight: Getting Started

1

## Plug in gateway

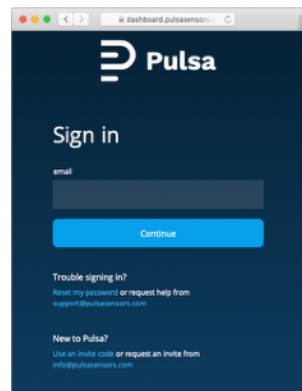
Plug your gateway into an outlet within 350 feet of your sensor.



2

## Log in to your account

Download and launch the Pulsa iOS app, Android app, or web dashboard (dashboard.pulsasensors.com). Log in with an existing username and password or create an account with an invite card.



3

## Install feet

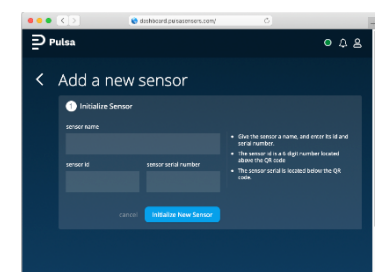
Flip the weight sensor over and install all four feet into the threaded holes on each load cell. Flip the weight sensor over onto feet and adjust feet to level weight sensor.



4

## Add sensor to your account

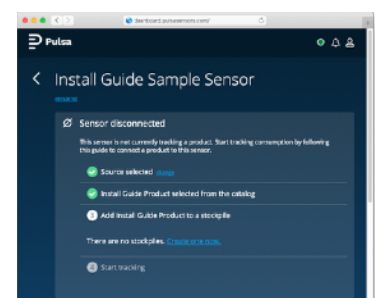
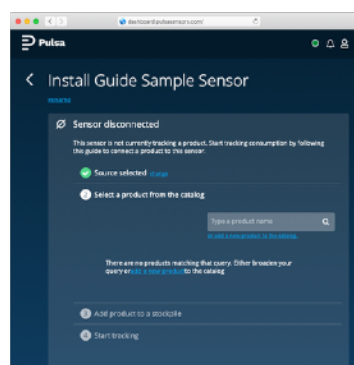
Scan the QR code with the Pulsa Mobile App and follow setup or click on "Initialize new sensor" on the Sensors page (either in the app or web dashboard) and enter the ID and serial number printed above and below the QR code on the side of your industrial scale.



5

## Connect sensor to product & stockpile

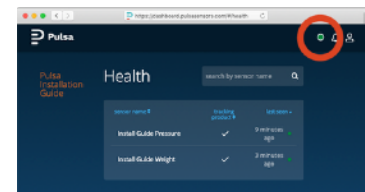
After initialization, follow the prompts. Tell Pulsa what you're tracking by connecting the sensor to a product in the catalog (which you can define on the spot) and add it to a stockpile (which you can create on the spot). If you get lost you can start over by clicking on the sensor name. You should now see the sensor in your Pulsa dashboard.



6

### Verify gateway

Verify that your gateway is displaying a solid green light. It needs to be within 350 feet of your sensors, and takes roughly 5-10 minutes after turning the gateway on. Ensure that your scale housing (attached to the side of the scale with a Pulsa logo, QR code, and tare button) is directly facing the gateway for best results. Click on the circle icon in the top right of the Pulsa dashboard to see the last time the gateway saw your sensors.



7

### Install ramp (Optional)

Locate the electronics housing with the QR code and choose one of the other three sides to place the ramp. Place feet in open holes of L-brackets. Slide the front lip of the ramp over the vertical leg of the L-bracket.



8

### Tare sensor (if needed)

After completing setup, confirm the sensor is level on a flat surface and check the sensor reading with no weight applied. If the reading is not zero, press the tare button to re-zero the sensor.



9

### Place your sensor

Place your scale underneath your consumable product. Again, ensure that your scale housing (attached to the side of the scale with a Pulsa logo, QR code, and tare button) is directly facing the gateway for best results. Within 5-10 minutes you should see an update in the Pulsa dashboard.