



LEVEL WATCH™

NON-CONTACT LEVEL MANAGEMENT SYSTEM

LEVEL SENSOR INCLUDED WITH BLUETOOTH CAPABILITY

RECEIVE IMMEDIATE NOTIFICATION OF EQUIPMENT CHANGES VIA TEXT OR EMAIL

FIELD READY ALTERNATIVE POWER OPTIONS FOR BATTERY & SOLAR POWER

MULTIPLE INPUTS TO CONNECT TO A VARIETY OF SENSORS

MANAGEMENT CLOUD DASHBOARD FOR MONITORING



Features

- Verizon ready
- No contracts
- Integrated inputs for multi-sensors
- Data location from built-in GPS
- Cloud monitoring/alarming service included
- Powers sensors from AC, battery or external solar

Product Overview

The Level Watch™ is a field ready low-cost way to monitor level at unattended remote tank sites. Receive immediate notification of any level changes. Level Watch is smartphone ready and includes a web and mobile friendly cloud interface to monitor, trend, and get alarms either by text or email. This product will display and record your process level measurement, and give users a way to remotely monitor, collect, and provide data & alarming for tank level or product inventory.

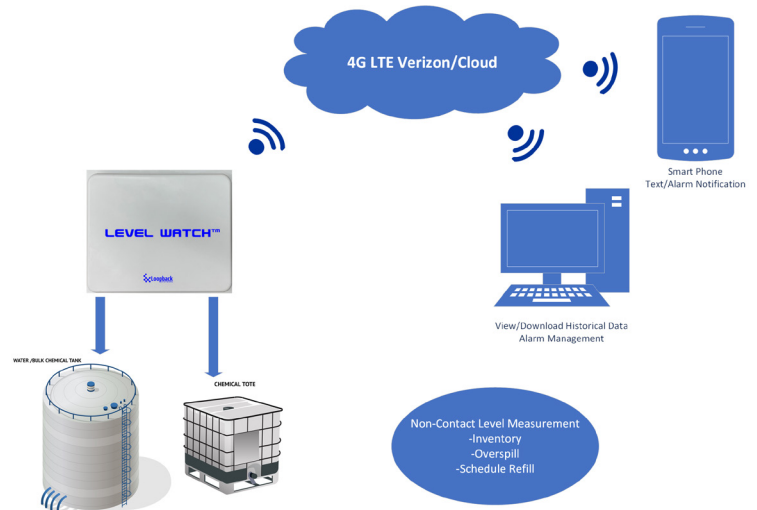
Available in two models to fit every application need:

Level Watch: Non-contact sensor included plus (1) digital/relay input and (1) analog input.

Level Watch Plus: Sensor agnostic for up to six level transmitters - (4) digital inputs & (6) analog inputs (2) 6A relays @250V AC/DC

Minimum switching voltage: 12V AC/DC

Configuration Diagram



The cloud platform offers historical trends for 3 years with data exporting in popular formats as well as reporting by exception to a predefined list of users. All data is secured under the user account and is secured using password protection.

There is no programming necessary to retrieve data from a Level Watch. Simply log into your account and your data will immediately show up on your personal dashboard. From there, you can assign users that will receive alarms based on the measurement of the sensor. The Level Watch is field ready and comes with mounting brackets to attach to any flat surface. Most importantly, the product includes the 1st year of Verizon/Cloud service.

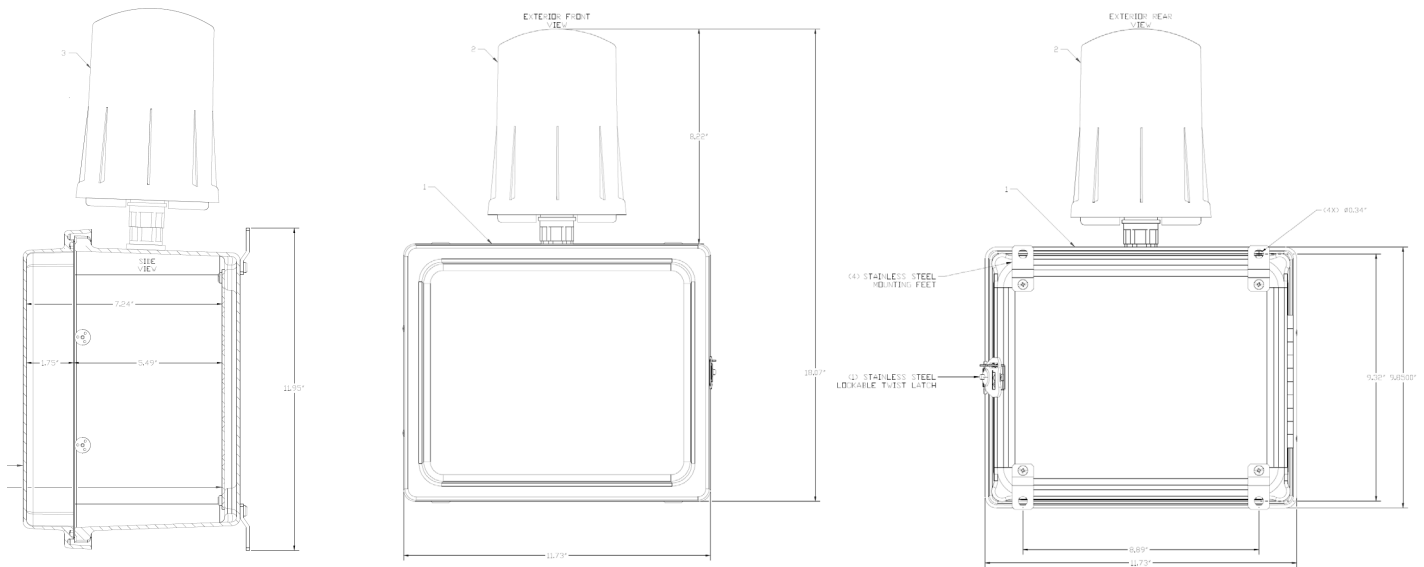
LEVEL WATCH™

Technical Specifications

Operating Temperature	-40 to +185°F (-40 to 85°C)
Humidity	0% - 100% condensing
Input Power	<ul style="list-style-type: none"> • Four 3.6Vdc D size lithium thionyl chloride batteries • Optional solar power • Optional 120VAC power
Input/Output	<ul style="list-style-type: none"> • Standard Offering • 1 Digital/relay input reports state, 6A relay @ 250V AC/DC • 1 Analog input (1-5Vdc or 4-20mA) • Minimum switching voltage: 12V AC/DC
Battery Life	Up to 5 years
Data Interface	LTE CAT M1 MQTT Cellular
Cellular Radio Power	23dBm
Antenna Type	LTE w/ Internal GPS
Enclosure	Industrial polycarbonate UV rated; IP64
Electrical Connection	Pluggable push in terminal block for sensors local micro-USB configuration port
Weight	3lbs (≈1.4kg)

Dimensions

connected by **verizon** powered by **SIGNALFIRE**
— WIRELESS TELEMETRY —



LEVEL WATCH™

Sensor Features & Benefits

Feature/Function	Benefit
Bluetooth wireless technology with SITRANS mobile IQ app on your mobile device.	<ul style="list-style-type: none"> • Time-saving setup and no specialists required • Device status at a glance
2 mm accuracy (LR110/120 versions) and zero blanking distance.	<ul style="list-style-type: none"> • Precise measurement over entire range (0-26 ft), accurate volume measurement.
Custom radar microchip delivers exceptional sensitivity	<ul style="list-style-type: none"> • Signal killer conditions like condensation, turbulence, buildup or fluffy solids are no problem.
80 GHz yields narrow beam	<ul style="list-style-type: none"> • No nozzle interference, no costly fine-tuning.
Digitalization Ready	<ul style="list-style-type: none"> • Get status and diagnostic data immediately to your systems ensuring quality of your process and faster and intelligent data for operations



Sensor Overview

Application Conditions

- Ideal for liquids or solids applications with process temperatures from -40 to 80°C (-40 to 176°F)
- Gas and dust approvals available
- Submergence shield option for flooding and fouling protection

Bluetooth wireless technology

- SITRANS mobile IQ app provides an intuitive interface to quickly configure, setup and monitor
- SITRANS mobile IQ app is compatible with Android, Apple and Windows devices

Process connections

- SITRANS LR100 and LR110 have thread 1½" NPT, BSPT, or BSPP
- Top thread is 1"

Communications

- All have 2-wire, 4-20 mA

Target Industries/Applications

Chemicals

- Small vessels containing raw materials
- Measurement through plastic tanks non-intrusively
- Inventory management

General Industries

- Automotive, Plastics, Electronics, Power
- Inventory management of raw materials
- Liquids and solids

Mining/Aggregate

- Inventory management
- Stacker conveyor piles
- Crusher level control
- Bins feeding crusher

Remote Sites

- Water management and reporting
- CSO
- Low power demands, solar battery powered sites.