



# **IBD Monitoring**

## **Wireless Monitoring System Overview**

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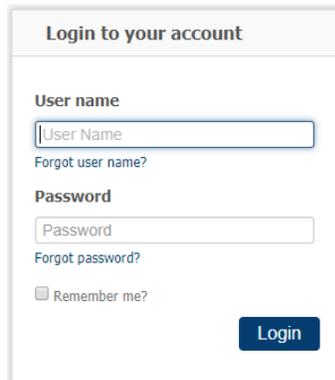


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## System Access

**Initial Login:** go to <https://monitoring.integrity-bd.com/Account>

**Login:** User Name is your email; Password is “password”



The screenshot shows a web form titled "Login to your account". It contains two input fields: "User name" and "Password". Below the "User name" field is a link "Forgot user name?". Below the "Password" field is a link "Forgot password?". At the bottom left, there is a checkbox labeled "Remember me?". At the bottom right, there is a blue "Login" button.

**Create Favorites Shortcut here**

**IOS and Android apps:**

Integrity-BD Mobile by Integrity-BD Monitoring *for Android Devices*

<https://play.google.com/store/apps/details?id=com.integritybd.monitoring.ibdmobile>



## System Overview

Integrity-BD Mobile by Integrity-BD Monitoring *for iOS Devices*

<https://itunes.apple.com/us/app/integrity-bd-mobile/id1326898272?mt=8>

The dashboard header includes the logo 'MBDNITORING by Integrity' and the text 'Integrity Business Development'. Below the header is a navigation bar with tabs: Overview, Notifications, Manage, Reports, Sensor Maps, and Administration. A dropdown menu shows 'Integrity DEMO Network' and a 'View Gateways' button. The main content area is a table of sensors:

All	Type	Sensor Name	Data	Last Check In	Signal	Battery
<input type="checkbox"/>		CC Temperature - 461751 MN	67.5° F	3/29/2019 10:21 AM		
<input type="checkbox"/>		Current Meter 20 Amp - 301890	0.17 Ah	3/29/2019 10:24 AM		
<input type="checkbox"/>		Refrigerator main Kitchen Humidity/Temperature	16.52% @ 26.5° F	3/29/2019 10:25 AM		
<input type="checkbox"/>		Safe Door	Closed	3/29/2019 9:59 AM		

The home page provides an overview of all the sensors in your system. This can be broken down into individual networks to show a subset of the sensors if appropriate.

- Clicking on any of the sensor names will expand to show additional detail

## Monitoring

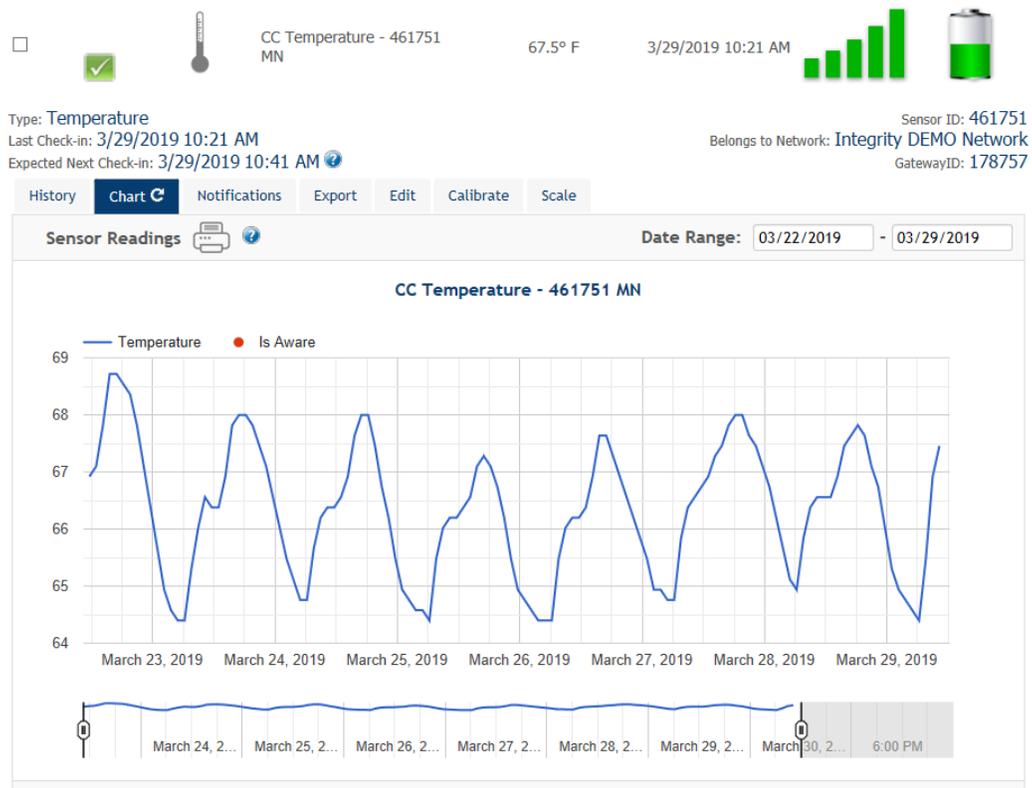
The monitoring page for the 'CC Temperature - 461751 MN' sensor shows the following details:

- Type: Temperature
- Last Check-in: 3/29/2019 10:21 AM
- Expected Next Check-in: 3/29/2019 10:41 AM
- Sensor ID: 461751
- Belongs to Network: Integrity DEMO Network
- GatewayID: 178757

Below the details are tabs for History, Chart, Notifications, Export, Edit, Calibrate, and Scale. The History tab is active, showing a table of missed communications:

Date	Signal	Battery	Sensor Reading
3/29/2019 10:21 AM	100	47	67.5° F
3/29/2019 10:01 AM	100	47	67.5° F
3/29/2019 9:41 AM	90	47	67.3° F
3/29/2019 9:21 AM	100	43	67.3° F
3/29/2019 9:01 AM	100	43	66.9° F
3/29/2019 8:41 AM	98	43	66° F
3/29/2019 8:21 AM	100	40	65.8° F
3/29/2019 8:01 AM	100	43	65.7° F
3/29/2019 7:41 AM	100	43	65.5° F
3/29/2019 7:21 AM	90	40	65.3° F
3/29/2019 7:01 AM	100	40	64.9° F
3/29/2019 6:41 AM	100	40	64.6° F

## Graphical view of data



Charts provides a graphical view of data within a set time frame. The date range can be set as well as the sliders on the bottom can be moved to allow for more detail.

## Data Export

Current Meter 20 Amp - 301890  
0-20A  
0.17 Ah  
3/29/2019 10:24 AM

Type: Current Meter 20 Amp  
Last Check-in: 3/29/2019 10:24 AM  
Expected Next Check-in: 3/29/2019 10:44 AM

Sensor ID: 301890  
Belongs to Network: Integrity DEMO Network  
GatewayID: 178757

History Chart Notifications Export Edit Calibrate Scale

Export sensor data Date Range: 03/22/2019 - 03/29/2019

Only the first 2500 records within the given date range will be exported.

Data from this sensor  
 Data from all sensors in network  
 Data from all sensors in account

Fields of data to export:

DataMessage GUID (required)	SensorID Name	Sensor Name	Date	Value	Formatted Value	Battery	Raw Data	Sensor State	GatewayID	Alert Sent	Signal Strength	Voltage	Special Value
<input checked="" type="checkbox"/>	<input type="checkbox"/>												

Export data to CSV file

Data can be exported to a csv file for use in other programs or reporting.

## Sensor Configuration

Current Meter 20 Amp - 301890 0.17 Ah 3/29/2019 10:24 AM

Type: Current Meter 20 Amp  
Last Check-in: 3/29/2019 10:24 AM  
Expected Next Check-in: 3/29/2019 10:44 AM

Sensor ID: 301890  
Belongs to Network: Integrity DEMO Network  
GatewayID: 178757

History Chart Notifications Export **Edit** Calibrate Scale

### Current Meter 20 Amp Sensor Configuration

Sensor Name	Current Meter 20 Amp - 301890	?
Heartbeat Interval	10 minutes	?
<b>Aware State</b>		
Aware State Heartbeat	10 minutes	?
Minimum Threshold	0 Amps	?
Maximum Threshold	20 Amps	?
Hysteresis	0 Amps	?
Averaging Interval	5 Seconds	?
Accumulate	<input type="checkbox"/> OFF	?
Show Full Data Value	<input type="checkbox"/> OFF	?
Synchronize	<input type="checkbox"/> OFF	?
Failed transmissions before link mode	3	?

While we typically setup these parameters for our clients, users with edit permissions can make changes as you see fit.

## Notifications and Alerts

Type	Notification Name	Last Sent	Sending To	Test
ON	Gateway 178757 inactive	2/17/2019 3:00 PM	✉ 📱	📄 ✎ 🗑
ON	High Humidity		✉ 📱	📄 ✎ 🗑
ON	High Temp Freezer >20	12/21/2018 12:09 PM	✉ 📱	📄 ✎ 🗑
ON	High Temperature Warning >40	1/10/2019 1:22 PM	✉	📄 ✎ 🗑
ON	Inactivity - Sensor	2/14/2019 2:22 AM	✉	📄 ✎ 🗑
ON	Low Battery	3/12/2019 6:41 PM	✉	📄 ✎ 🗑
ON	Low Temperature Warning	1/10/2019 12:40 PM	✉ 📱	📄 ✎ 🗑
ON	Room 100 Temperature is out of range			📄 ✎ 🗑
OFF	Safe Door Alert	1/31/2019 1:42 PM	✉	📄 ✎ 🗑

There are multiple options for sending out notifications and alerts:

- Text, email or both
- Can be paused during projects
- Based on sensor reading or time of day/week
- Alerts can be set to only occur during scheduled times
- Can alert for battery level

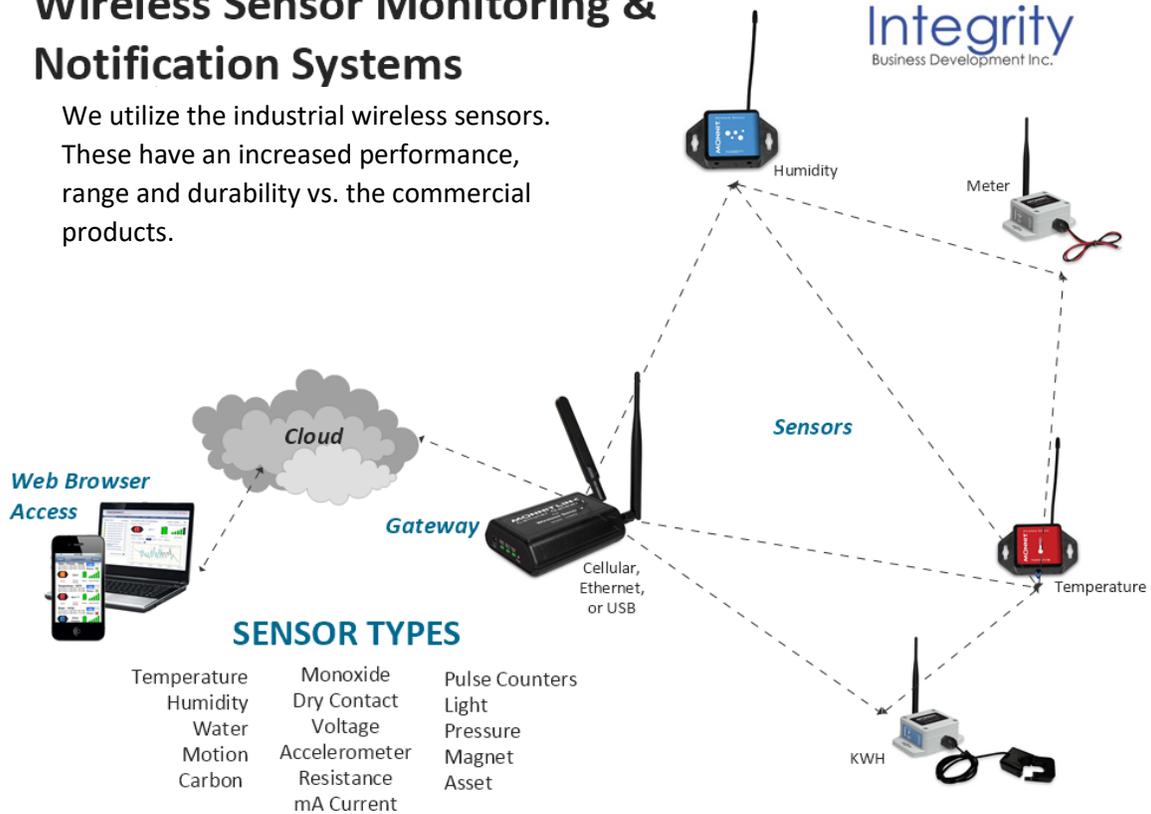
## User Setup

Last Name	First Name	Notification	Admin
Lundborg	Mark	Email: mark.lundborg@integrity-bd.com SMS: 9729746478 (AT&T MMS)	✓ 📄 ✉ 🗑
Roen	Tim	Email: tim.roen@integrity-bd.com SMS: 6123236512 (AT&T MMS)	✓ 📄 ✉ 🗑

Users can be set up with email or text message alerts; with edit or view only permissions; and various other access levels.

## Wireless Sensor Monitoring & Notification Systems

We utilize the industrial wireless sensors. These have an increased performance, range and durability vs. the commercial products.



### SENSOR TYPES

- |             |               |                |
|-------------|---------------|----------------|
| Temperature | Monoxide      | Pulse Counters |
| Humidity    | Dry Contact   | Light          |
| Water       | Voltage       | Pressure       |
| Motion      | Accelerometer | Magnet         |
| Carbon      | Resistance    | Asset          |
|             | mA Current    |                |

