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Need Help? www.buddy.com/support
Introduction

Welcome to Buddy Ohm:

Buddy Ohm is an affordable resource monitoring solution for businesses of any size that simplifies building operations and provides peace of mind by harnessing real-time utility and operational data to reduce or mitigate risks and improve operations, savings, and sustainability.

This document describes the Ohm Portal and Ohm View (dashboard) user experience.
What's new?

ADMINISTRATION

User Administration
Ability to create new user accounts, modify user accounts and assign user group permissions.

User Profile Administration
Modify user profiles for displaying temperature in Celsius/Fahrenheit, receive alert notifications via SMS/email, assign user groups, modify user email and contact number details.

Site Administration
Ability to add and modify new organizations, folders, sites, dashboards and data feeds.

Site Filters
Filter by functional devices, physical devices, streams, feeds, users, dashboards, groups and monitors.

Dashboard Support
Create and edit dashboards. Ability to select on individual dashboards in runtime.

Localization Support
Language support (English, French, Spanish) is now supported.

POWER FEATURES

Granular energy monitoring
View watts, volts and amps in addition to kilowatts and kilowatt hours.

SYSTEM TROUBLESHOOTING

Physical device troubleshooting
View physical device serial number, polling interval, device ID, gateway address, signal strength, last reporting time.

Data feed troubleshooting
View data feed name, provisioned status, associated device serial number, device type, connected fields and status, data feed graph.

Enhancements

HISTORICAL DATA

Trending
Create new user accounts, modify user accounts and assign user group permissions.

Data Resolution
View data in minutes, quarter hours, hours and days.

REAL-TIME DATA

Data Cards
User-friendly data cards with consolidation of temperature and humidity for climate monitoring and watts, amps, voltage and Wh for electrical monitoring. Ability to rename, hide cards and view underlying card data information. Cards colorized according to real-time data status.

Data Feeds
Filter data cards by hidden, provisioned status and feed state.

USABILITY

Navigation
Navigate using a tree view by organization, site, feeds, users, groups, streams, dashboards.

About the User Manual

This manual covers all features included in Ohm Portal™.
Get Started

Terminologies

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Devices</td>
<td>Hardware devices installed on site. This could be a Buddy Ohm, Sense, Link, Pulse or View.</td>
</tr>
<tr>
<td>Streams</td>
<td>Individual real-time data points collected from physical devices.</td>
</tr>
<tr>
<td>Feeds</td>
<td>Group of streams.</td>
</tr>
<tr>
<td>Users</td>
<td>User login accounts.</td>
</tr>
<tr>
<td>Dashboards</td>
<td>Dashboard view of the portal.</td>
</tr>
<tr>
<td>Organizations</td>
<td>A group of sites.</td>
</tr>
<tr>
<td>Sites</td>
<td>A physical location where Buddy Ohm monitoring is installed.</td>
</tr>
<tr>
<td>Monitors</td>
<td>An alert monitor that triggers an alert on a user-configured alert condition.</td>
</tr>
</tbody>
</table>
Workspace Basics
The Ohm Portal provides an intuitive user interface with a navigation pane, visualization and dashboard area.

Navigation Hierarchy
An Organization is the top level in the Ohm installation hierarchy under which sites and associated properties are located.

Navigation Menu
The navigation menu is displayed when you first login to the Ohm Portal and is displayed on the left-hand side of your browser. You can navigate to your site and down to the building/facility location.

```
Organization
  Sites
    Feeds
    Dashboard
    Users
```
Localization

Buddy Ohm supports multiple languages from the portal. Users can choose the language support from the bottom of the portal under the main feed summary.
Real-time Data

Electrical Information
Real-time data is displayed for each feed by default with the following electrical streams:

- Kilowatts
- Amps
- Volts
- kWh (over the previous 10mins of data samples)

Water Information
Real-time data is displayed for each feed by default with the following water streams:

- Liters
- Volume

Climate
Real-time data is displayed for each feed by default with the following climate streams:

- Temperature
- Humidity
Historical Data

Buddy Ohm sends real-time data to Buddy Cloud. Historical time series data is stored in Buddy Cloud and is available to view through the Ohm Portal or Ohm View. There are no restrictions on the data volume or history that data is collected.

Switching between data feeds

Users can switch between information feeds through the Ohm Portal tabs on the historical data chart.
Trending

A trend is a pre-configured plot (graph) of a data feeds value versus time, where the feed value represents historical data. The user can display more than one trend on a plot. The user can view various aspects of the trend by scrolling in time, showing cursor values, viewing a pen trace and zooming.

Scrolling in Time

The user can scroll (drag) the time scale backwards or forwards by scrolling on the time axis. Continual sequential dragging allows the time scale to be updated without data being retrieved. Once sequential mouse-drag operations have ceased, a half second later the missing data will be retrieved. This allows the user to scroll to a time period into the past or future without interruption.

Show Cursor Value

The trend cursor automatically appears when a user hovers over a data trend and displays the data feed values and descriptive labels. The mouse cursor can be moved across the plot by simply dragging the cursor line.
Viewing a single pen trace

The user can view only a single pen *(and hide all other pens)* in a plot that has more than one pen.

Click the data selected pens that you don’t want to see. The remaining pen remains visible, while all the other pens become hidden.
Zoom Box
The user can enlarge a portion of the plot by creating a zoom box around the desired area. This causes a plot of the selected area to be redrawn with the XY scales adjusted to match the limits of the zoom box. This feature allows a user to select any portion of the plot.

Zooming the X and Y axis simultaneously
1. Right click the plot area
2. Hold and drag the zoom box from top right to bottom left
3. When the zoom box reaches the desired size, release the left button. The selected portion of the plot appears with autoscale activated.
4. Double click the plot area to exit the zoom function.
Zooming within a range scale
1. Right click the plot area.
2. Hold and drag the zoom box from top to bottom range or bottom to top range.
3. When the zoom box reaches the desired size, release the left button.
   The selected portion of the plot appears with autoscale activated.
4. Double click the plot area to exit the zoom function.

Zoom by range scale

Zooming within a time scale
1. Right click the plot area.
2. Hold and drag the zoom box from right to left or left to right of the date scale.
3. When the zoom box reaches the desired size, release the left button.
   The selected portion of the plot appears with autoscale activated.
4. Double click the plot area to exit the zoom function.

Zoom by time scale
Previous View
Double click the trend to return to the previous trend view.

Exporting Data
Users can export data from historical data trends simply by clicking on the Export as CSV button.

An excel spreadsheet will open once clicked and users can save the spreadsheet to their preferred location.
Administration

Dashboards
A dashboard is a public facing view of Buddy Ohm.

Creating Dashboards
Dashboards can be created by selecting “New Dashboard” from the add button “➕” at the bottom left hand side of the portal.

Dashboard properties

Enter the dashboard name and description.
If you wish to auto generate the dashboard then select the “Auto generate dashboard” option and click “Save”.

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Modifying Dashboards

Navigate to the dashboard card and click on the dashboard.

Click on the "Edit button".

Modify the appropriate dashboard properties and click “Save”.

```json
1. 
2. "schemaVersion": "0.0.2",
3. "name": {
4. "values": [
5. 
6. "locale": "en",
7. "value": "My Dashboard"
8. ]
9. 
10. "defaultlocale": "en"
11. },
12. "hidden": false,
13. "description": {
14. "values": [
15. 
16. "locale": "en",
17. "value": "Site 1 Dashboard"
18. ]
19. 
20. "defaultlocale": "en"
21. },
22. "sections": [],
23. "preferredUnits": []
24. }
```
Feeds
A Feed is a collection of related data Streams, such as the Temperature and Humidity streams from a Sense device to make a Climate Feed, or the Voltage and Current Streams that make up a Power Feed.

Creating Feeds
Feeds can be created by selecting “New Feed” from the add button “✚” at the bottom left hand side of the portal.

Enter Feed name

From the Type dropdown list select one of the following options:

- Climate (temperature and humidity)
- Single phase circuit (power, energy, or current from one stream)
- Three phase circuit (power, energy, or current from three streams)
Click on the *pen icon* “‡” to select the stream source.

Select Stream

Now select the stream source to add it to the feed.

Once all the streams have been added to the Feed select “Save”.
Modifying Feeds

Click on the *feed properties button* on the right-hand side of the feed.

![Feed properties](Image)

Click on “Show Details”

![Feed details](Image)

Click on *edit button* in the connected fields summary.

![Feed edit](Image)

Modify the appropriate details and select “Save”.

![Feed editor](Image)
Renaming Feeds

Feeds can be renamed within the portal from the feed by clicking on the *feed properties icon* next to the feed name.

Click on “Edit Name”.

Enter the new name and click on the “Save” icon or press escape to exit.
Hiding Feeds

Feeds can be hidden within the portal from the feed by clicking on the “feed properties” icon next to the feed name.

Click on “Hide Feed”

Hidden feeds can be shown by clicking on the “Show Hidden” filter button within the feed summary.

The feed can be unhidden by clicking on the feed properties icon next to the feed name and clicking “Unhide Feed”.

Need Help? www.buddy.com/support
Folders
A folder can be used as a logical grouping of feeds.

Creating Folders
Folders can be created by selecting “New Folder” from the add button “✚” at the bottom left hand side of the portal.

Add Folder
Modifying Folders
Once a Folder has been created, you can edit the Folder details from the Folder summary screen.
Organizations

Creating Organizations
Organizations can be created by selecting “New Organization” from the add button “✚” at the bottom left hand side of the portal.

Add Organization Properties
Modify Organizations
Once an Organization has been created, you can edit the organization details from the organization summary screen.

Update the appropriate details and click and “Save” changes.
Sites
A Site is a physical building or facility location where Buddy Ohm is installed.

Creating Sites

Modify Sites
Once an Site has been created, you can edit the Site details from the Site summary screen.
Users
User administration is available from the “Profile” button in the bottom left hand side of the portal.

Passwords
Users can modify passwords from the user profile tab.
**Email Address**
Users can modify email addresses from the user profile edit tab.

**Contact Number**
Users can modify contact phone numbers from the user profile edit tab.

---

**User Email**

**User Contact Number**
Alert Notification Type
Users can enable/disable alert notifications via SMS or email (or both) from the user profile section.

Units
Users can change climate measurement readings between Celsius and Fahrenheit from the user profile section.
Groups
Users can remove themselves from existing user groups from the Units.

Removing User Groups

Adding User Groups
Troubleshooting

Offline Sensors
Offline sensors will report with a red exclamation mark against each data feed with a last report time at the bottom left hand corner.

Check power to physical device

**Ohm Devices**
5V DC power adapter is required for the device to power up. 9V AC is optional and needed only for real power monitoring.

**Link Devices**
5V DC power adapter is required for the device to power up. 9V AC is optional and needed only for real power monitoring.

Check and replace the AA batteries on the Link device if AC/DC power is unavailable.

**Sense Devices**
Check and replace the AA batteries on the Sense device if required.
Troubleshooting Signal Strength

One probable reason for the data feeds being offline may be a poor communications signal strength which prevents the sensor reporting to Buddy Cloud. Signal strength can be checked by accessing the Connected devices under the Feed Properties.

Select “Show Details” from the Properties list.

Now click on the connected device name.
The signal strength is displayed under the connected device properties device settings.

**Offline Feed Filter**

To improve the signal strength you can try the following:

- Move the device closer to the Ohm gateway
- Remove any obstructions
- Place the device in a higher or lower location
- Take Sense's antenna out, straight, vertical
- Antennas polarization (all vertical)
Contact Support

Online:  www.buddy.com/support

Email: support@buddy.com

Additional Documentation

Ohm Installation Guide (US)

Ohm Product Specifications (US)

Find additional documents and guides online, visit www.buddy.com/support.