Site Survey for Sentry-6002 Installation

# Company and Site Information

|  |  |
| --- | --- |
| Client/Company Name: | Site Name: |
| Plant Type:   Power Generation   Substation  Other (specify) | Client Technical Contact:  Tel:  Cell: Email: |
| Installation Address: | Installer: |
| Intended Installation Date: |  |

# Battery Information

|  |  |
| --- | --- |
| Battery type/Model: | Capacity: Ah |
| Bus Voltage:  120V 240V | Battery Number in This String: |
| Designed Maximum Current: A | *Contact BatteryDAQ if this is for Ni-Cad batteries.* |
| Terminal/Post Bolt Size  6mm  8mm  10mm  Others | Close-up of a battery with wires  Description automatically generated Close-up of a machine with a few metal parts  Description automatically generated |
| Bus Cable Size: | Number of Cables at Inter-Tier: |

# Sentry BMS mounting location

Choose one or more mounting options

|  |  |
| --- | --- |
| Location | Description |
| Inside battery room, wall mounting |  |
| Inside battery room, mount on battery rack |  |
| Control room next to battery room, wall mounting |  |
| Other (specify) |  |

# Take Photos (Very Important)

Please attach high resolution photos.

|  |  |  |
| --- | --- | --- |
|  | **Description** | **Example** |
| **Photo-1** | Show battery overall room  (multiple photos if necessary) | A long shot of a machine  Description automatically generated |
| **Photo-2** | Show battery brand/model | A group of batteries on a shelf  Description automatically generated |
| **Photo-3** | Show battery post/terminal and connection bar/cable | A close-up of a battery  Description automatically generated |
| **Photo-4** | Show Positive bus connection | A group of batteries with metal rods and red buttons  Description automatically generated with medium confidence |
| **Photo-5** | Show Negative bus connection | A close-up of a caution sign  Description automatically generated |
| **Photo-6** | Show Inter-Tier connection for choosing correct window size for Current Transducer  A blue box with wires and a blue box with wires  Description automatically generated | A close-up of several electrical equipment  Description automatically generated |
| **Photo-7** | Intended BMS mounting location | A electrical box with wires attached to it  Description automatically generated |
| **Photo-8** | Show rack structure for cable tray installation | A close-up of a machine  Description automatically generated |

# Cable Length Estimation

If the unit is installed inside the battery room [**Preferred**], **on the wall** or **onto the rack**, first identify the best location, then estimate the cable length to reach the farthest battery cell.

When the battery rack is split into multiple sections, consider the extra length to pass through from one section to another. For some construction, it may need to go through the ceiling or floor.

|  |  |
| --- | --- |
|  |  |
| **Wall Mounting** | **Rack Mounting** |

**If the unit is installed in the control room** next to battery room, please check the distance and estimate the maximum cable length.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| L1(ft) | L2(ft) | L3(ft) | L4(ft) | Total (ft) |
|  |  |  |  |  |



Dashed lines are for going under floor.

# Conduit

Confirm with client if any specific conduit is required for wiring.

# Network Connection

Discuss with client for available network options.

IoT cellular is a low-cost solution when regular Ethernet is not available. Contact BatteryDAQ for details.

|  |  |  |  |
| --- | --- | --- | --- |
| # | Available Connection Options on Site | Check | Description/Client’s preference |
| 1 | Ethernet with assigned static IP |  |  |
| 2 | Fiber connection (Fiber adapter provided by BatteryDAQ) |  |  |
| 3 | IoT Cellular-1 (SIM card provided by BatteryDAQ with annual data fee) |  |  |
| 4 | IoT Cellular-2 (SIM card provided by client) |  |  |
| 5 | Company’s Wi-Fi |  |  |
| 6 | Cellular Router provided by client |  |  |
| 7 | RS485 to SCADA |  |  |
| 8 | Direct Connection between PC and BMS  [Access data, download history, perform load test] |  |  |