

How To Configure 4-20 mA Tags in Asset Manager

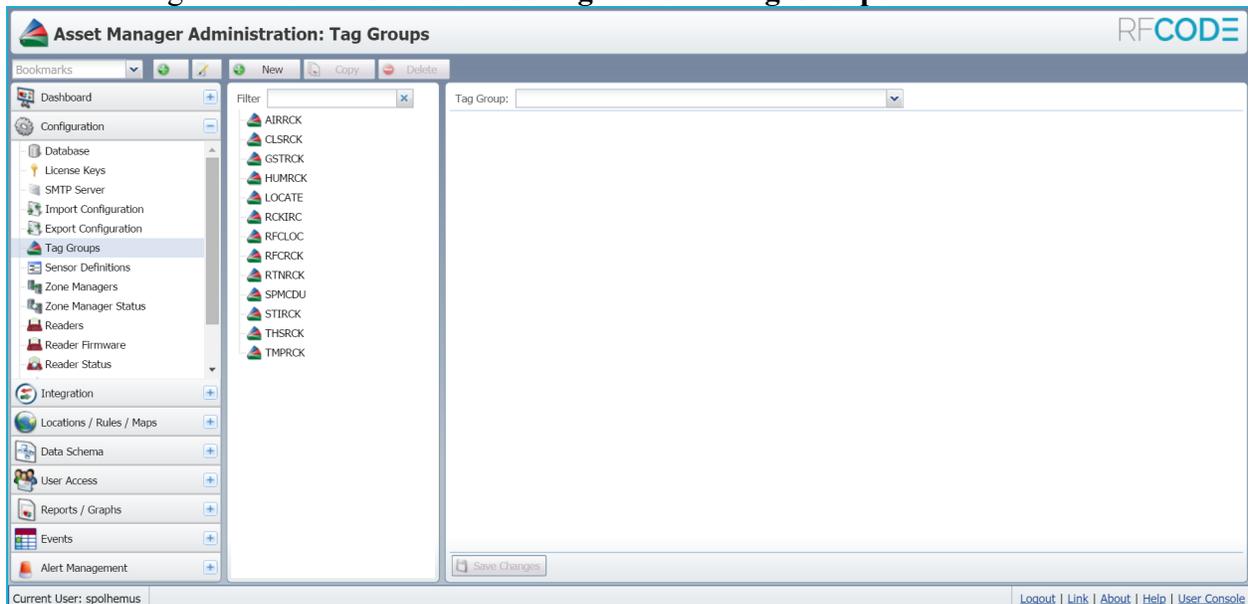
A Tag Group must be added to Asset Manager for each tag type used. In order to use Sensor Tags, a sensor definition must be set. Sensors tags are then created as assets and assigned to locations in order for the data they send to Asset Manager to be properly interpreted and used.

To use 4-20 mA Current Loop Sensor Tags, add the Group Code **CLSRCK** in Asset Manager. (Group Code CLSRCK is part of Treatment Code 04X.)

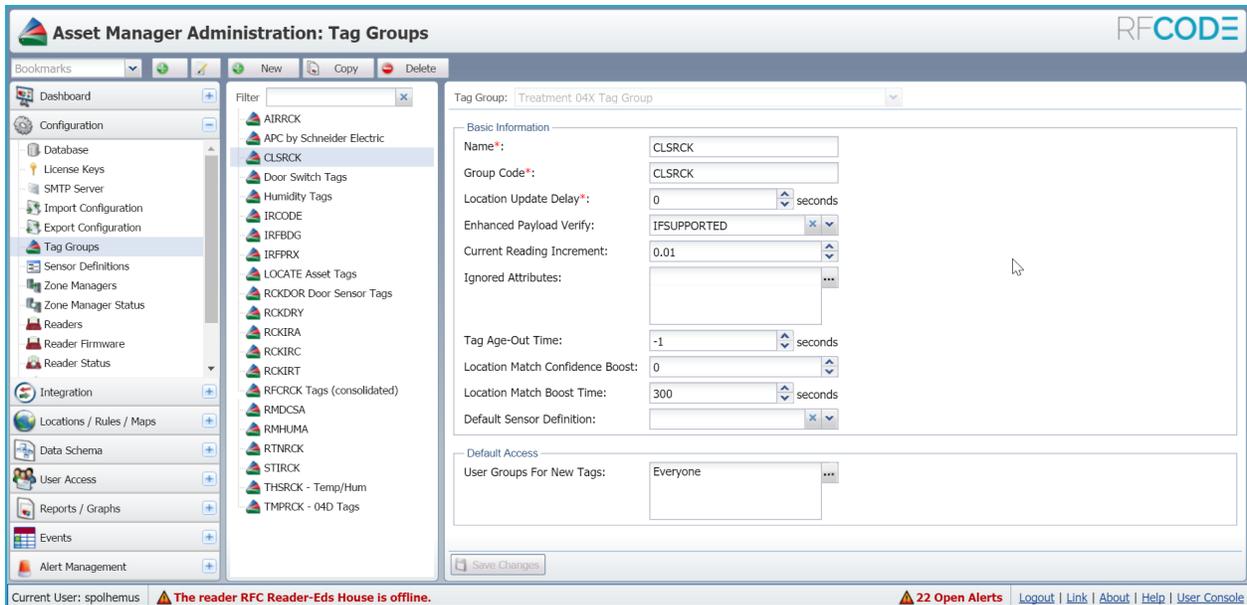
NOTE: You must be using Asset Manager version 2.9.1 or higher in order to use 4-20mA tags.

Add a Tag Group for 4-20mA Sensor Tags

1. Navigate to **Admin Console > Configuration > Tag Groups.**



2. If the desired Group Code is not listed in the center pane, click the **New** button and select the **Tag Group**.
3. Complete all required and any desired additional fields.
NOTE: Asterisks (*) mark required fields.

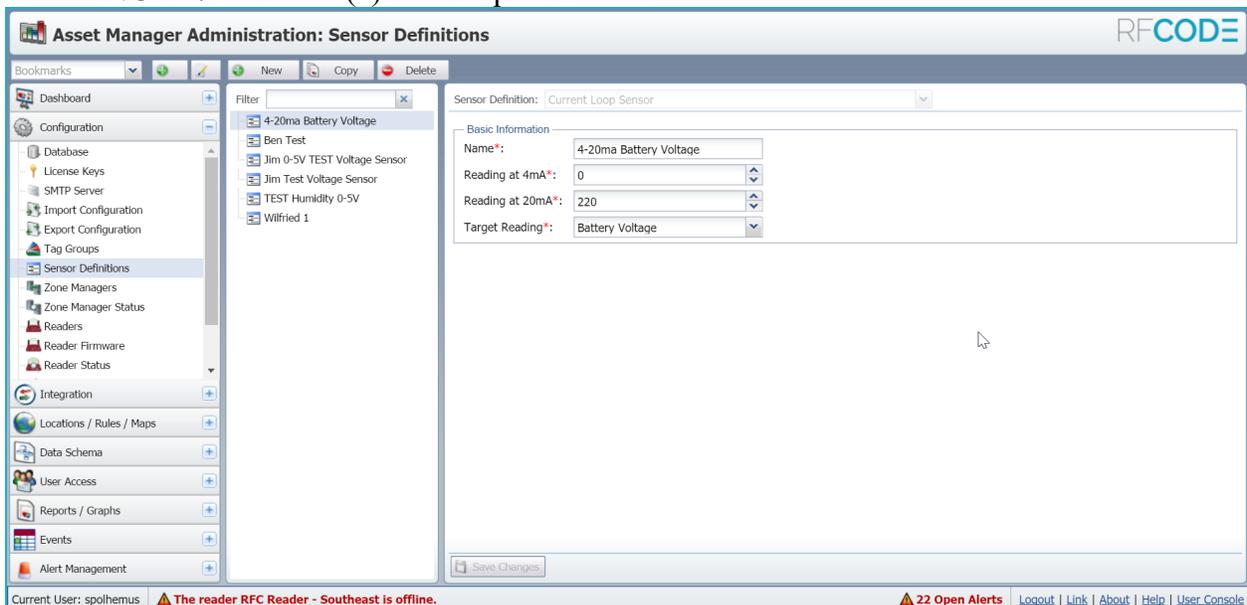


4. Save Changes.

Create a Sensor Definition for 4-20mA Sensor Tags

After the tag group has been created, create a Sensor Definition.

1. Navigate to **Admin Console > Configuration > Sensor Definitions**.
2. Select the appropriate Sensor Definition. For a 4-20mA sensor, select **Current Loop Sensor**.
3. Complete all required and any desired additional fields.
NOTE: Asterisks (*) mark required fields.



- **Name:** assign a name to your sensor.
- **Label:** if desired, assign a label to your sensor.
- **Reading at 4mA:** Set the desired numerical value.
- **Reading at 20mA:** Set the desired numerical value.
- **Target Reading:** Select a target from the drop-down menu.

NOTE: The Target Reading selections are those Status Attributes used with 4-20 mA tags, as defined in the Asset Manager data schema:

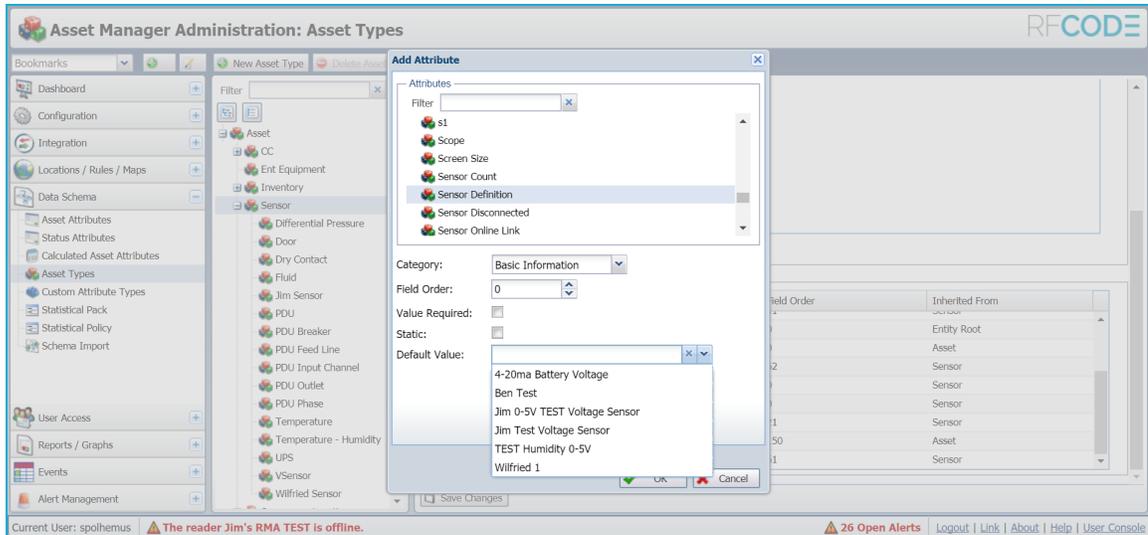
- Temperature
- Humidity
- User Sensor 1
- User Sensor 2
- User Sensor 3
- User Sensor 4
- User Sensor 5
- User Sensor 6
- User Sensor 7
- User Sensor 8
- User Sensor 9
- User Sensor 10

4. **Save Changes.** The new sensor definition appears in the list.

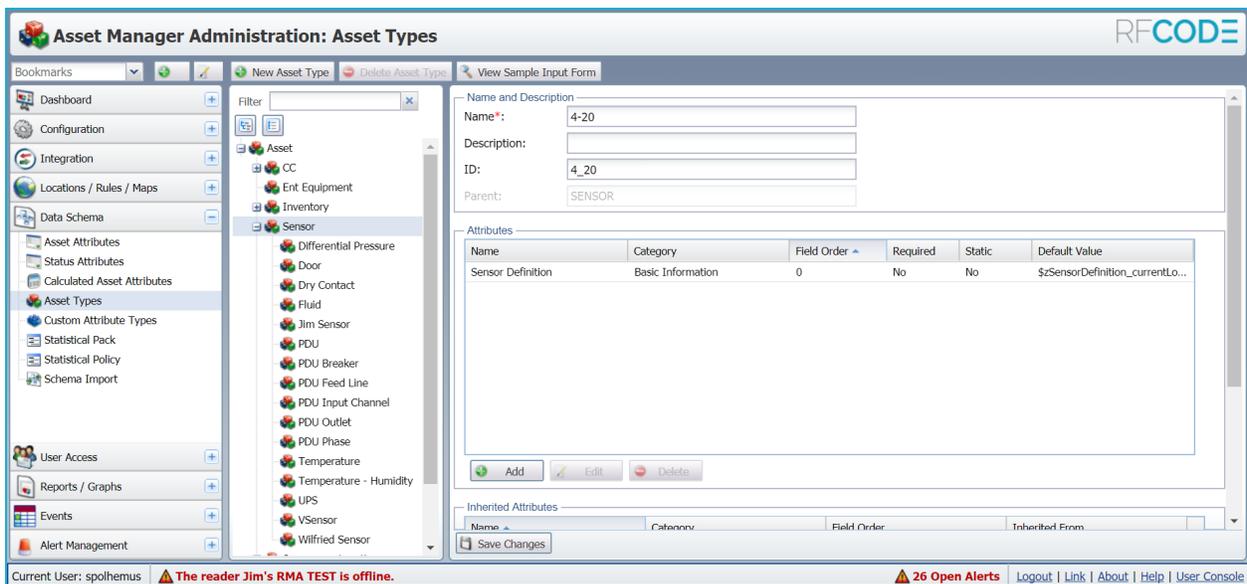
NOTE: If desired, the Status Attributes used in sensor definitions can be customized. Navigate to **Admin Console > Data Schema > Status Attributes** to edit values, etc.

Create a New Asset Type for 4-20mA Sensors

1. Navigate to **Admin Console > Data Schema > Asset Types**.
2. Select **Sensor** and click **New Asset Type**.
3. Complete all required and any desired additional fields.
NOTE: Asterisks (*) mark required fields.
4. Click **Add** to add Attributes. Two Attributes are required for a 4-20mA Sensor:
 - a. In the pop-up window, from the list of attributes, select **Sensor Definition** (User Sensor, Temperature, or Humidity)
 - b. In the Default Value dropdown, select the sensor definition you created for the 4-20 tag.



- c. Click **OK**. The pop-up window closes. Click **Add** to select the second attribute:
- d. In the pop-up window, from the list of attributes, select an appropriate Status Attribute to use as a **Target Reading**, for example User Sensor 1.
- e. In the Default Value dropdown, select a default value.
- f. Click **OK**. The pop-up window closes.
 - If you need to set a default value for any of your 4-20mA sensor's attributes, select an Attribute value and click **Edit** to access the Edit Attribute section. **Save Changes** when finished.



Create 4-20mA Sensor Tags as Assets

Tags can be added to Asset Manager manually or by import, or you can mount the sensor tags and let Asset Manager Detect them, then Import Detected Tags.

1. Navigate to **User Console > Tag Management > Manage Tags**. If the sensor tag does not appear in the Unassigned Tags list, it has not yet been imported. Import tags.
2. In the Unassigned Tag list, select the asset tag and right-click to access menu options.
3. Select **New Asset**. In the Create New Asset Pop-up Box, select the **Asset Type > Sensor > 4-20 mA**.

In the Create: 4-20 mA pop-up window, complete all required and any desired additional fields.

NOTE: Asterisks (*) mark required fields.

- **Name:** assign a name to your sensor.
 - **Asset Tag:** this is the tag ID you selected from the Unassigned Tag list.
 - **Sensor Definition:** Select the Sensor Definition you created to tell Asset Manager what kind of data this sensor will transmit.
 - **Description:** If desired, add information about the sensor here.
 - **Operational Status:** Assets can be created in advance of their purchase or installation and their records maintained through their life cycle. For sensor tags that have been mounted and are transmitting data, select **Operational**.
3. Click **OK** when finished.
 4. **Save Changes**.

The sensor asset can now be viewed in the Assets task. Navigate to **User Console > Assets** and select among the Asset Links and filters or use the Search box to locate your new asset by name or type.