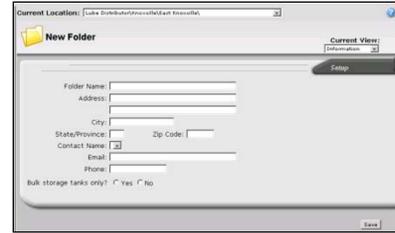


OnSite Tank Setup on www.onsitetelemetry.net

1. Login (using given username/password)
2. Add site/account folder
 - a. Click on the to start the add object module.
 - b. Select 'Add a Folder'.
 - c. Fill out folder information (only Folder Name required) and press SAVE.
3. Add Controller
 - a. Click on the to start the add object module.
 - b. Select 'Add a Controller'.
 - c. Enter Controller SN.
 - d. Adjust Schedule Settings, and press SAVE.

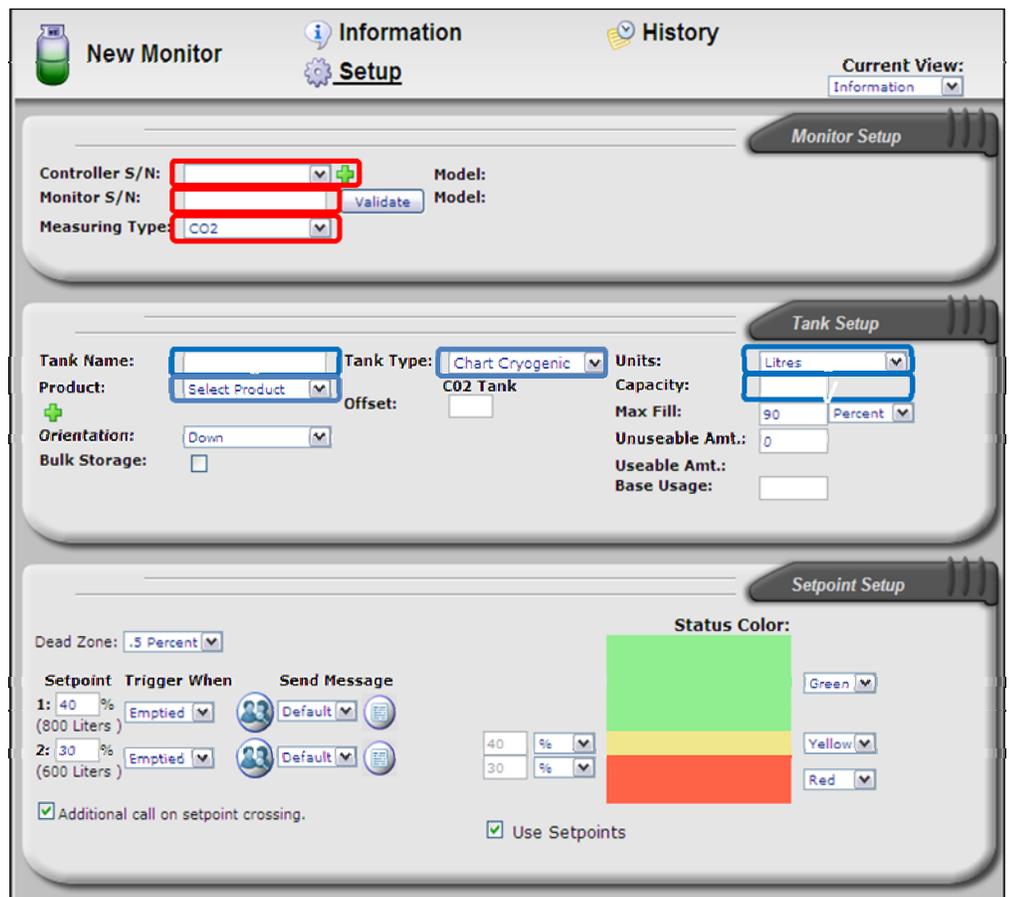


4. Add Tank
 - a. Click on the to start the add object module.
 - b. Select 'Add a Tank'.
 - c. Fill out tank information (including Controller and Monitor SNs associated with tank).
 - d. Press SAVE.

Select Controller
Enter Monitor SN
Select Measuring Type - CO2

Enter Tank Data:
Tank Name
Product
Tank Type - Chart Cryogenic
Units
Capacity

Adjust Setpoint Setup and alert email list if necessary



1. Find a suitable phone (analog only) or Ethernet (LAN) outlet. **The RF Telemetry system has a radio range of 1 mile line-of-sight, or 500 ft. obstructed. Refer to Centeron Controller Instruction Manual (Doc # 040004A0001 Rev. C; pg. 5-6) for further detail on range.**
2. Connect the Controller to the phone or Ethernet using the provided RJ11 (phone) or CAT5 (Ethernet) cable. (Connect one end of the RJ11 or CAT5 cable to the Controller, and the other end to the phone or Ethernet outlet.)
3. Connect the provided Power Supply to an electrical outlet (120V AC), and then to the Controller.
4. Verify both power and phone connections by observing the LED's on the RobertShaw Controller. (Refer to the quick installation guide that is provided with the RobertShaw Controller.)

NOTE [Analog Controller]:

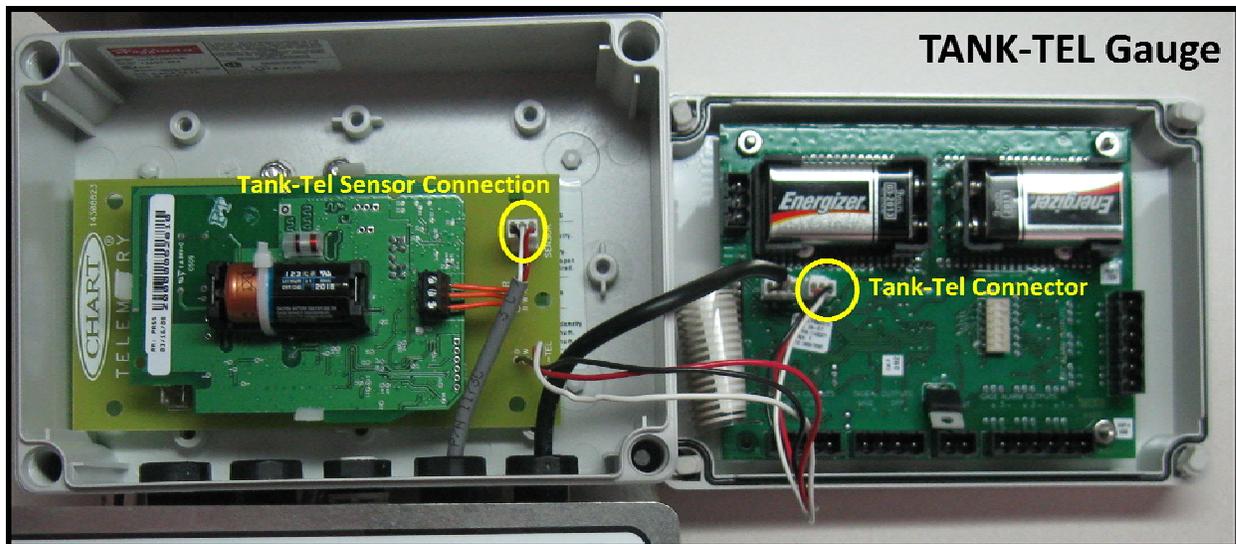
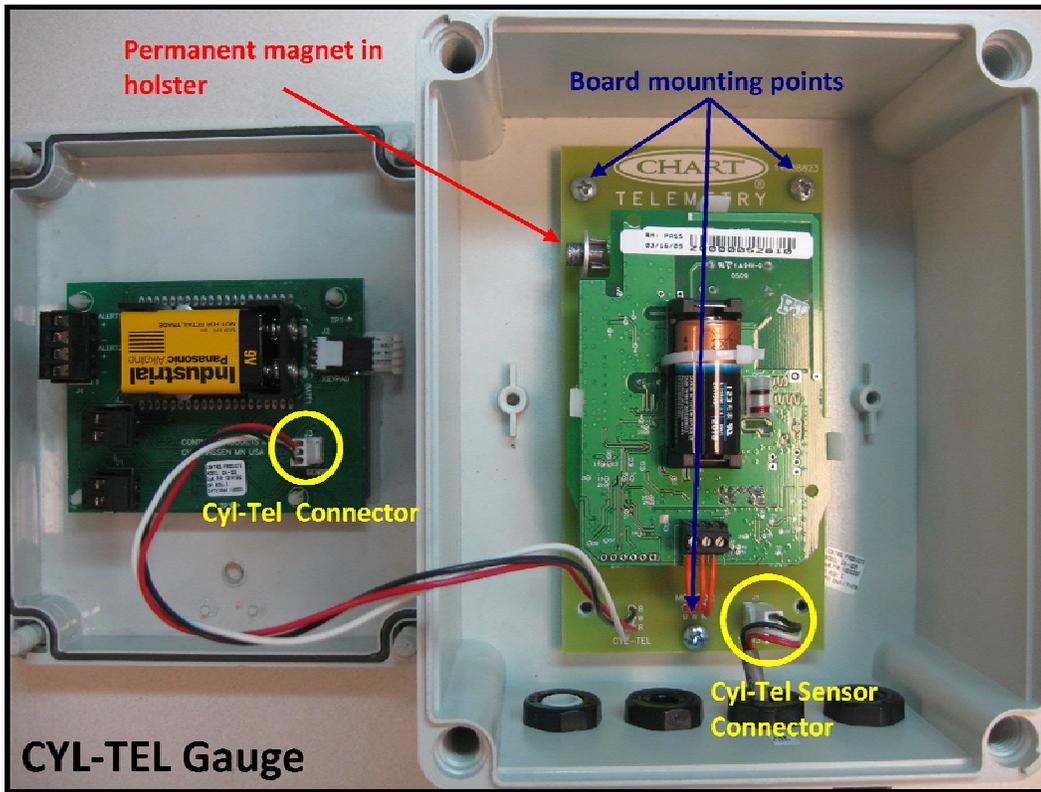
If the analog phone system requires a prefix such as '8' or '9' to reach an outside line, then refer to Appendix A of the *OnSite RF Telemetry Installation Manual Rev B*. More complete information for Controller setup can be found in the Controller Instruction Manual (*RobertShaw Document # 040004A0001 Rev C*), which is included with the Controller hardware.

NOTE [Ethernet Controller]:

The Ethernet Controller is preset to use DHCP (Dynamic Host Configuration Protocol) to connect to a LAN. This configuration can be changed to static IP addressing if needed. Instructions can be found in the *RobertShaw Document # 040005B0001 Rev. B*. Or, refer to Appendix D of the *OnSite RF Telemetry Installation Manual Rev B* for complete instructions/troubleshooting guide for the RobertShaw Ethernet Controller.

RF Telemetry Board Installation

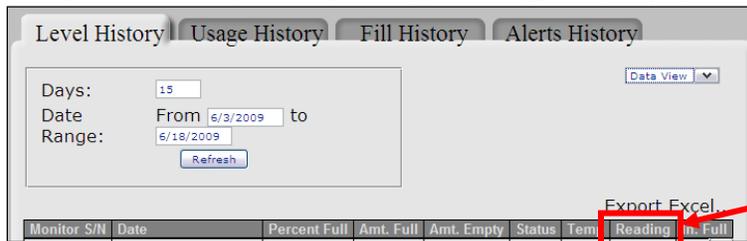
1. Install the RF Telemetry Interface board into the Cyl-Tel or Tank-Tel gauge.



2. Once the RF Telemetry Interface board is installed, press the ON button on the Cyl-Tel or Tank-Tel gauge to verify correct installation and reading (reading should match the reading prior to installation). **Take a note of the tank level (used for offset calculation later).**
3. Remove the permanent magnet from the holster (to activate telemetry). Leave magnet inside Cyl-Tel/Tank-Tel enclosure (but not in holster).
4. Install face back onto Cyl-Tel/Tank-Tel.

Finalize OnSite RF Telemetry Installation

1. Reset power on Controller (by disconnecting and reconnecting power adapter).
2. Verify successful communication to website
 - a. Login to www.onsitetelemetry.net
 - b. Go to tank page and verify 'Last Update' timestamp (should match time of telemetry activation).
3. Set the OFFSET
 - a. In Centeron, browse to the specific tank History.
 - b. Select 'Data View' from the pull-down menu (default is 'Chart View').
 - c. Under 'Data View' a table with the Monitor information (such as Monitor SN, Date, Percent Full, Status, Temp, Reading, etc.) is populated.



- d. Note the **Reading** (number) of the most recently updated Monitor information. Check time of reading to verify the **Reading** (#) is associated with the **actual tank level** (ATL) taken from the Cyl-Tel/Tank-Tel gauge.
- e. If **actual tank level (ATL) = 100%** taken from Cyl-Tel/Tank-Tel, then:

$$\text{OFFSET} = 1000 - \text{READING}$$

If **actual tank level (ATL) < 100%** taken from Cyl-Tel/Tank-Tel, then:

$$\text{OFFSET} = 1000 - \left[\frac{(\text{Reading} - 36)}{\text{ATL}} + 36 \right]$$

Example:

Cyl-Tel reads 95% (ATL = 95% => 0.95)
 Reading on Centeron is 277 (Reading = 277)

OFFSET = 1000 - [((READING - 36)/ATL) + 36]
 OFFSET = 1000 - [((277-36)/0.95) + 36]
 OFFSET = 1000 - [(241/0.95) + 36]
 OFFSET = 1000 - [253.68 + 36]
 OFFSET = 1000 - 289.68
OFFSET = 710.32 => 710 (rounded to nearest whole number)

4. Use this Tank Offset number in the Offset field (in Tank Setup)
5. Press SAVE. **Installation is complete.**