

VERSION
3.1

SINGLE SCALE CELLULAR MODEM
QUICK START GUIDE



Plant **Connect**

Production Data Anywhere

Belt-Way Scales Inc.
102 East Daugherty St.
Webb City, MO 64870
Phone: (800) 441-4237
sales@beltwayscales.com
www.beltwayscales.com

1. Introduction

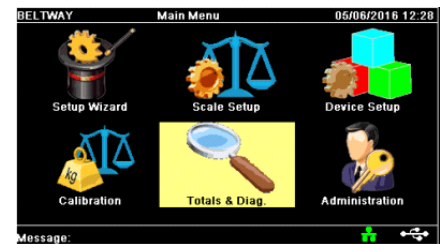
The Plant Connect system allows the user to remotely monitor Belt-Way conveyor belt scales over the Internet. The single scale modem is designed to transmit data from one hardwired scale to the Plant Connect website. This is suggested for scales installed on all types of mobile conveyors.

There are two cellular modems options Verizon Wireless or HSPA. Verizon is only for use in the USA. HSPA can be used in the USA on other networks such as AT&T or internationally with a customer provided sim card.

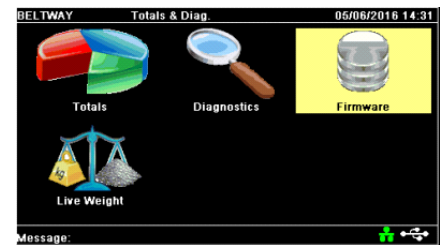
2. Check Integrator Firmware Version

PLANT CONNECT WON'T WORK WITHOUT CORRECT INTEGRATOR FIRMWARE !

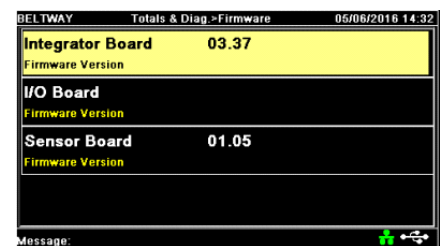
A. Press the **Menu** button. Choose **Totals & Diag.**



B. Press the **Menu** button. Choose **Totals & Diag.**



C. Check **Integrator Board Firmware Version**

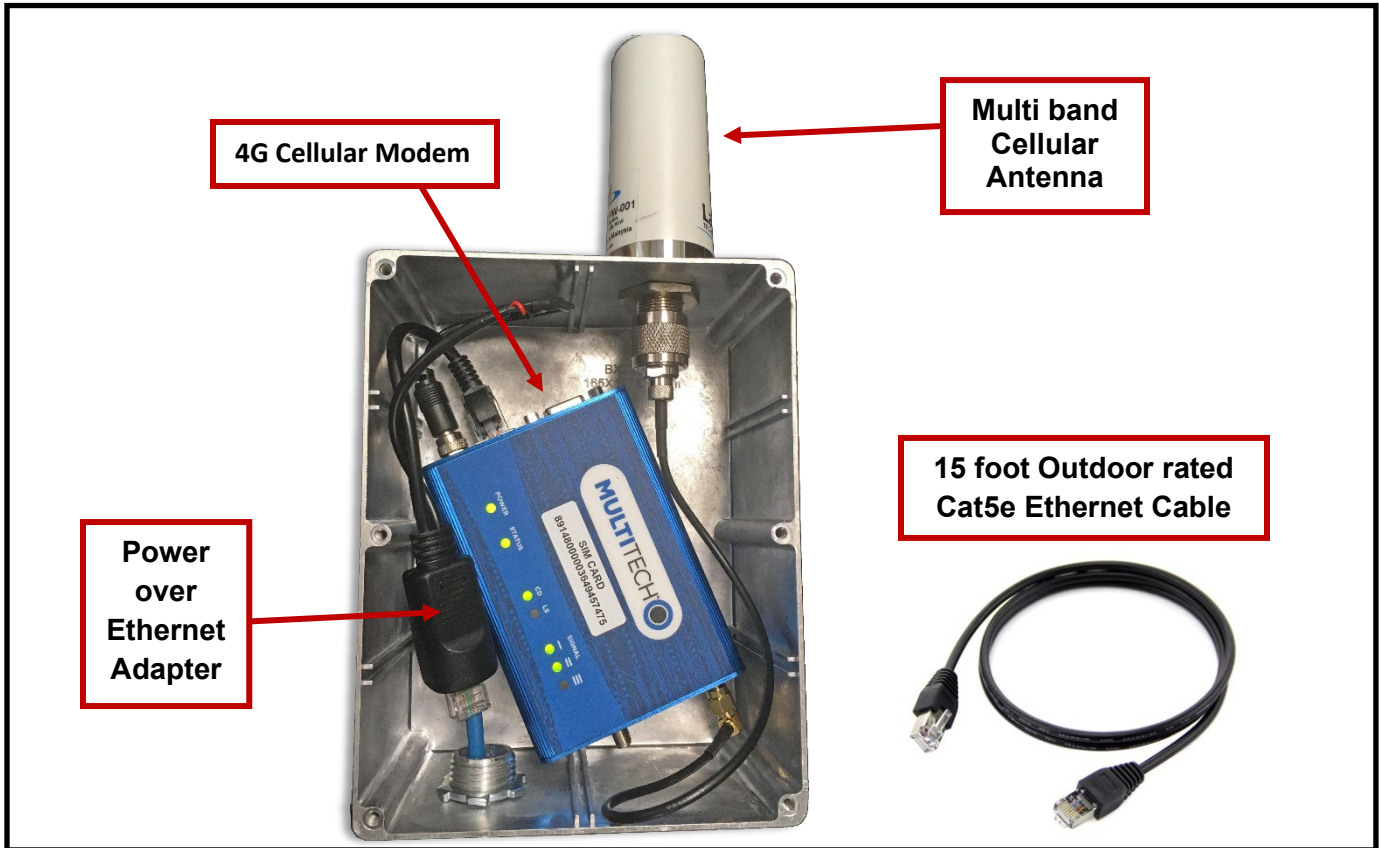


A new version of Plant Connect was released in January 2019 that requires integrator firmware version 6.43 or greater.

Existing integrators running firmware versions 3.XX, 4.XX, or 5.XX must have a new integrator board installed or be returned to Belt-Way for manual upgrade.

Contact Belt-Way prior to installation if a firmware update is required!

3. What is in the Box?



4. Modem Specifications

Part Numbers:

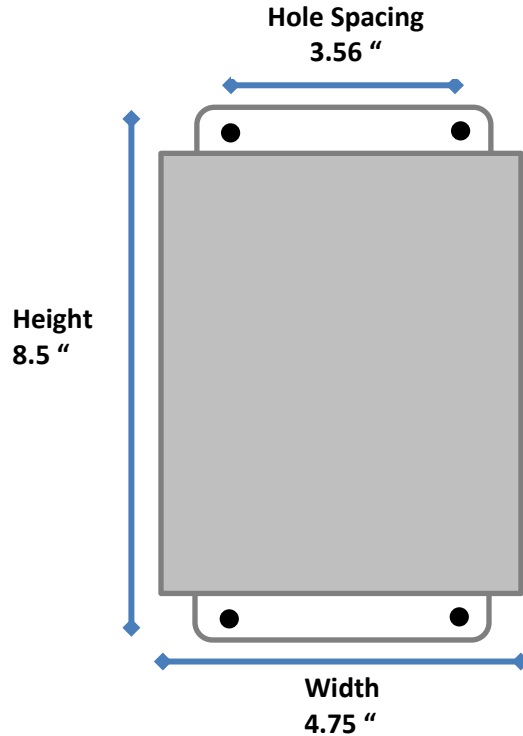
PCMVZW - Verizon 4G Cellular modem

PCM-HSPA - HSPA Cellular modem (AT&T or International, * Customer may supply SIM CARD *)

<p>Power Power Requirements: 15 VDC 15 Watts Integrator POE supplies power. External power is not required.</p>	<p>Communication Com ports: Ethernet Port Cellular Modem: 4G LTE for Verizon Network HSPA for other Networks</p>
<p>Enclosure Dimensions: 8.5" H x 4.75" W x 3.25" D Protection: IP65 (Nema 4) Suitable for Indoor or Outdoor Use</p>	<p>Environmental Temperature Rating: -40 to +140 °F</p>
<p>Cable Outdoor / UV Rated Cat5e Ethernet Cable</p>	<p>Cellular Band Verizon: 1700/1700 MHz HSPA: 800/850/900/1700/1900/2100 MHz</p>

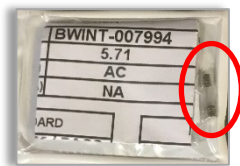
5. Mount the Modem Enclosure

Mount the modem enclosure so it is free from excessive vibration. All dimensions are in inches. The mounting kit includes 4 self-tapping screws.



6. Install Power Over Ethernet fuse

1. Remove fuse from pouch located inside the integrator door



2. Insert fuse into terminal board



3. Make sure the fuse fits snugly in the fuse clip! If the fuse is loose, remove it and compress the fuse clip contacts to make a tighter fit.



7. Connect Ethernet Cable

Route the 15 ft. cable through the cord connector directly below the Ethernet port. Use the included single hole grommet. It is split to allow the RJ-45 connector to fit through the hole. Plug the cable into the integrator ethernet port.



8. Power the Integrator

The cell modem will turn on as soon as the integrator powers on.

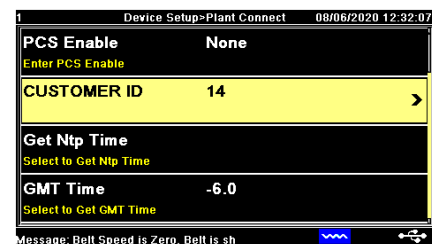
9. Enable Plant Connect

- A. Press the **Menu** button.
Choose **Device Setup > Plant Connect**.



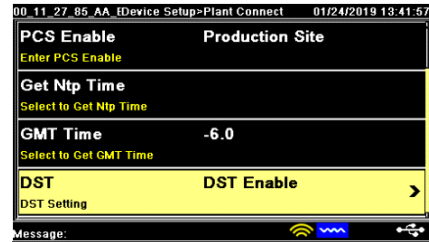
- B. Next enter the **CUSTOMER ID**.

**This is unique to each customer.
Contact Belt-Way tech support to get
your Customer ID.**

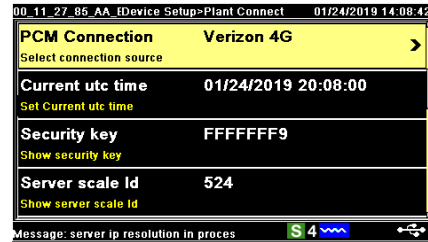


- C. Enable daylight saving (**DST**) to automatically adjust the integrator time during Spring and Fall time shifts. Change **GMT Time** to the local time zone.

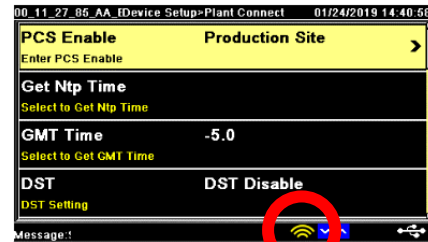
- 5 = Eastern Time
- 6 = Central Time
- 7 = Mountain Time
- 8 = Pacific Time
- 9 = Alaska Time
- 10 = Hawaii Time



- D. Change **PCM Connection** to **Verizon 4G** or **HSPA**.

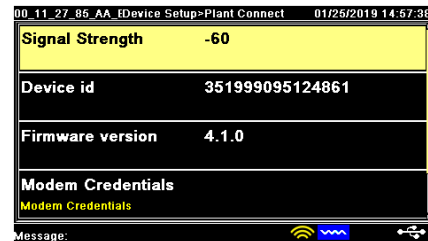


- E. Change **PCS Enable** setting to **Production Site**. The integrator should connect to the Plant Connect website in a matter of minutes. The message line shows the current activity and the status icons will change from **S1 through S4**. Finally the wireless icon will appear when the connection is successful.



A full explanation of the icons can be found Under **ICON Descriptions**.

The signal strength range is as follows:
Very Good (-40), **Average** (-70), **Poor** (-100)
 Plant Connect should work at a minimum of -80.



Low signals may be improved by a cellular booster.

8. Contact Belt-way Tech Support

Contact Belt-Way as soon as the scale is online.

A Belt-Way technician will be able to move the scales to your custom website.

9. Login to Website or Smartphone App

The preferred web browser is Google Chrome. Navigate to the following address:

<https://plantconnect.beltwayscales.com>

Enter your username and password and click **Login**.

Contact Belt-way if you have other questions.