PowerCost™
SERIES

User Guide

Program / Sync

Current Rate Structure

Consumption Totals

Temperature

Toggle Arrows

$ / kW

Current Consumption

Low Battery Indicator

Time

Appliance

Total / Estimate

Clear

$0.24 /hr
OFF-PEAK
$0.39
TOTAL 76° 10:32 AM

APPL ▲ ▼
$ / KW   CLEAR   TOTAL / EST
BLUE line

Function Name	What it Does
$ / kW	Toggles the display of values between dollar and kilowatt amounts
Current Consumption	Shows what your current electricity usage is costing
Current Rate Structure	Shows what your rate structure is set at (2 PEAK, 3 PEAK or TIER)
Battery Indicator	Shows low battery for both in home display and sensor on meter
Consumption Totals	Tracks cumulative energy use since the last reset of the totals
Time & Temperature	Outside temperature (C° or F°) and time (12h or 24h)
APPL	Toggles APPL function on and off; used to measure how much electricity is consumed by a single appliance
Toggle Arrows	Allow you to adjust settings in Programming Mode
$ / kW	Toggles the display of values between dollar and kilowatt hour amounts
TOTAL / EST	Toggles the display of values between current consumption and estimated 30 - day consumption
CLEAR	Reset consumption total values (Dollars and kW) to zero *Note: If done on the first day of your billing cycle every 30 days, you will have a continuous, rough idea of your next monthly electricity bill*

PowerCost™
S E R I E S

User Guide

How To?	
Connect to Sensor	1. Take your Display Unit to where your sensor is located. 2. Press - and - hold the PROG/SYNC button until you hear two beeps, then release. You should see "id" displayed on the Current Consumption location on the Display Unit. 3. Press and release the RESET button on your sensor 4. Your Display Unit should beep, indicating it has paired to your sensor 5. Observe the sensor for correct LED status. The LED on the sensor will come on SOLID RED then change to FLASHING RED
Enter Programming Mode	In order to enter Programming Mode, press - and - hold the PROG/SYNC button until you hear one beep, then release. Your Device is now in Programming Mode. Please refer to our step-by-step installation guides and video at http://bluelineinnovations.com/support-troubleshooting
Factory Reset	To reset the Display Unit to its factory - set defaults, simultaneously press-and-hold the CLEAR and PROG/SYNC buttons until you hear one beep. All values previously entered are now deleted and your Display Unit is configured with its default factory settings.
Measuring a Single Appliance	1. Turn off the appliance you wish to measure 2. Wait a few moments 3. Press the APPL button 4. Turn on the appliance The APPL indicator is displayed in the top row. After a few moments, the value displayed represent the energy currently consumed by that particular appliance. *Note: To obtain realistic results, you should make sure no other appliance is turned on or off while you are measuring the appliance.*
Reset Totals	To reset the total values (Dollars and kW) that appear on the Consumption Totals location on your Display Unit, press - and - hold the CLEAR button located on the front of the Display Unit until you hear one beep.

BLUE LINE INNOVATIONS
REAL TIME ENERGY DATA

PowerCost™
SERIES

APPLIES TO

POWERCOST™
DATA SENSOR

INSTALLATION
Sensor and Digital
Meter Install Guide

INSTRUCTION FOR SENSOR

1. Install the band clamp and batteries into the sensor.

2. Install the shim, adhesive side to the sensor. (If the shim is required for your meter).

3. Slide the sensor onto the meter until the sensor arm is as close to the meter face as possible.

4. Tighten the clamp until the shim conforms to the shape of the meter, but loose enough to move the sensor on the meter.

6. Locate your meter type in the images and align the sensor arm exactly as shown in the image. Your goal is to have the black LED on the arm positioned directly over the IR Port (Infra Red Port).

7. Tighten the sensor clamp gradually, re-adjusting the alignment as necessary until the shim is slightly compressed and the sensor cannot move on the meter.

8. Turn on a high load appliance such as an electric oven or cloths dryer. This will help the sensor detect the meter faster.

9. Take the in-home display outside to the sensor on your electrical meter.

10. Press and hold the PROG/SYNC button on the top of the in-home display until you hear a second beep, then let go. You will now see "id" on the screen.

11. Press and release the RESET button on your sensor on the meter. You should hear a beep from your display indicating it is now linked to your sensor. (Do not hold the reset button on the sensor for more than 1 second).

12. Observe the sensor for correct LED status. The LED on the sensor will come on SOLID RED then change to FLASHING RED. If the LED never flashes re-adjust the sensor Arm and press reset again.

13. Turn off the high load appliance after seeing a reading on your display.

Push arm through then pull the arm out of the sensor
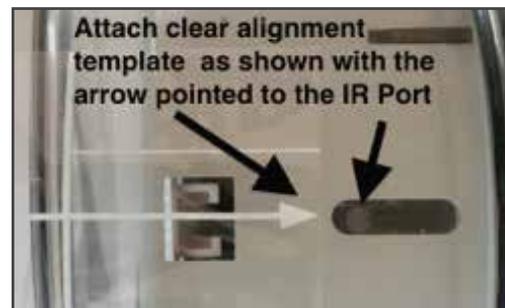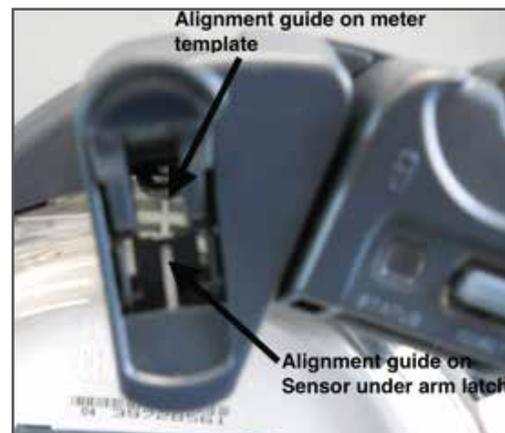
Lift latch

Lift latch

Push arm into sensor

For additional assistance please call one of our Customer Service agents toll free at: 1-866-607-2583, 7days a week between 8:00am to 11:00pm.

FRONT PORT SENSOR INSTALLATION VIDEO
http://youtu.be/tQS1_DrxClc

PowerCost™
S E R I E S

APPLIES TO

POWERCOST™
DATA SENSOR

INSTALLATION
Sensor and Digital
Meter Install Guide

OTHER DIGITAL METER EXAMPLES

IR Port

Align the Sensor Arm over the IR Port

IR Port

Correct IR Port

Line up the Sensor Arm over the IR Port

Line up the Sensor Arm over the left IR Port

Correct IR Port

Line up the Sensor Arm over the left IR Port

Correct IR Port

Line up the Sensor Arm over the left IR Port

For additional assistance please call one of our Customer Service agents
oll free at:1-866-607-2583, 7days a week between 8:00am to 11:00pm.

MORE INFO AT WWW.BLUELINEINNOVATIONS.COM
"HOW TO" VIDEOS AT YOUTUBE.COM/POWERCOSTMONITOR

BLUE LINE INNOVATIONS
REAL TIME ENERGY DATA

PowerCost™
SERIES

INSTRUCTION FOR SENSOR

1. Insert the sensor arm completely into the base of the sensor as shown in the image to the right.

2. Install the band clamp and batteries.

3. Apply the clear adhesive template onto the meter as shown in the image to the right.

4. Slide the sensor onto to the meter all the way to the back of the meter.

5. Tighten the sensor clamp but leave it loose enough to move the Sensor on the meter.

6. Lift the sensor arm latch to expose the white line up guide.

7. Line up the white guide on the sensor with the white line on the alignment template.

8. Turn on a high load appliance such as an electric oven or clothes dryer. This will help the sensor detect the meter faster.

9. Take your in-home display outside to the sensor on your electrical meter.

10. Press and hold the PROG/SYNC button on the top of the display until you hear a second beep, then let go. You will now see "id" on the screen.

11. Press and release the RESET button on the sensor (the LED will turn on solid RED).

12. Slowly move the sensor forward incrementally until the RED LED begins to flash. (If the LED turns off before flashing press the RESET button again).

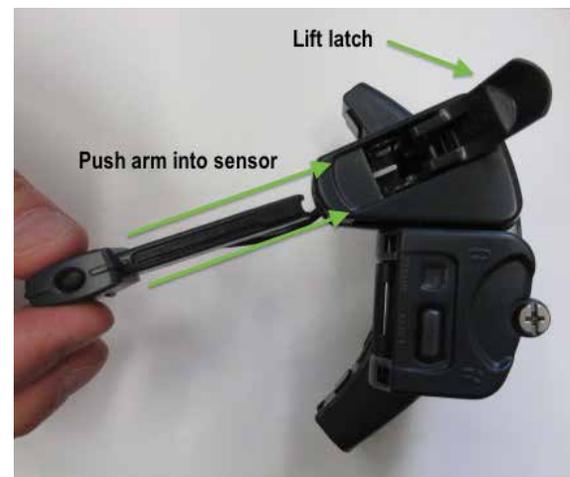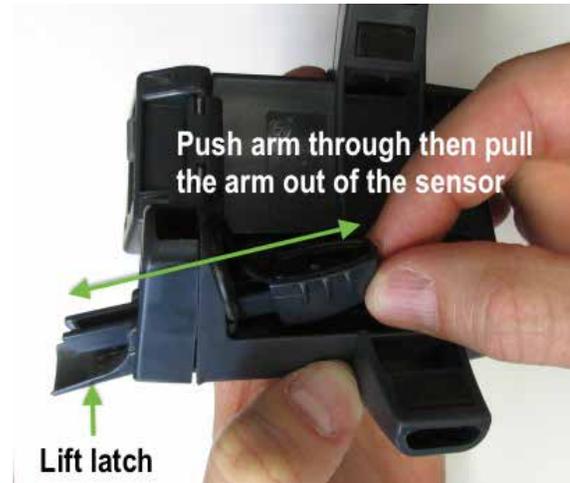13. Tighten the sensor clamp fully being careful not to move the alignment.

Alignment guide on meter template

Alignment guide on Sensor under arm latch

Attach clear alignment template as shown with the arrow pointed to the IR Port

For additional assistance please call one of our Customer Service agents toll free at: 1-866-607-2583, 7days a week between 8:00am to 11:00pm.

SENSOR AND TOP MOUNT METER INSTALLATION VIDEO
http://www.youtube.com/watch?v=rmFooKlHA-M&feature=youtu.be

MORE INFO AT WWW.BLUELINEINNOVATIONS.COM
"HOW TO" VIDEOS AT YOUTUBE.COM/POWERCOSTMONITOR

BLUE LINE INNOVATIONS
REAL TIME ENERGY DATA

PowerCost™
S E R I E S

APPLIES TO

POWERCOST™
DATA SENSOR

INSTALLATION
Sensor and Disk
Meter Install Guide

INSTRUCTION FOR SENSOR

1. Install the sensor clamp and batteries in the sensor.

2. Slide the sensor onto the meter and align the sensor arm with the meter disk as shown in the image.

3. Tighten the sensor clamp so the sensor will not move on the meter.

4. Turn on a high load appliance such as an electric oven or cloths dryer. This will help the sensor detect the meter faster.

5. Take your in-home display outside to your sensor on your electrical meter.

6. Press and hold the PROG/SYNC button on the top of the display until you hear a second beep, then let go. You will now see "id" on the screen.

7. Press and release the RESET button on the sensor on the meter. You should hear a beep from the display indicating it is now linked to your sensor. (Do not hold the reset button on the sensor for more than 1 second).

8. Observe the sensor for correct LED status. The LED on the sensor will come on SOLID RED, turn off after approximately 30 seconds, then flash once per disk revolution as the black mark on the disk passes under the sensor Arm. You should see a reading within 3 minutes.

9. Turn off the high load appliance after seeing a reading on your display.

For additional assistance please call one of our Customer Service agents toll free at:
1-866-607-2583, 7days a week between 8:00am to 11:00pm.

Push arm through then pull the arm out of the sensor

Lift latch

Lift latch

Push arm into sensor

WARNING!

DISK METER INSTALLATION VIDEO
http://www.youtube.com/watch?v=p4OB63zAVkg&feature=youtu.be

BLUE LINE INNOVATIONS
REAL TIME ENERGY DATA
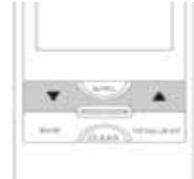
PowerCost™
SERIES

Rates for your utilities provider must be programmed into your PowerCost Monitor™ display. Here's how you do it.

PROG/SYNC BUTTON:
Enter/Exit Program Mode,
Move between settings
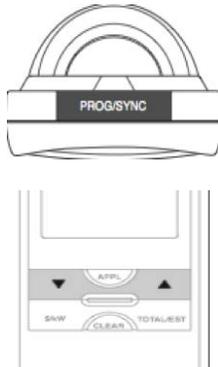
UP/DOWN BUTTONS:
Change values of
each setting

1. Press and hold the PROG/SYNC button until you hear 1 beep. The hours on the clock will begin to flash.

2. Set the hour on the clock to the correct AM/PM hour using the UP/DOWN arrows then click the PROG/SYNC button once.

3. Set the minutes on the clock using the UP/DOWN arrows then click the PROG/SYNC button.

4. Set your preferred time format using the UP/DOWN arrows then click the PROG/SYNC button.

5. Set the day of the week using the UP/DOWN arrows then click the PROG/SYNC button.

6. Set your temperature preference using the UP/DOWN arrows then click the PROG/SYNC button.

7. Set your meter power factor using the UP/DOWN arrows then click the PROG/SYNC button. (1.0 for digital meters, 7.2 for disk type meters)

8. Choose TIER using the UP/DOWN arrows then click the PROG/SYNC button.

9. If you are on a single or flat rate plan follow step10. If you are on a multi – tier rate plan move to step 11 then 12.

10. Set the electricity rate then press and hold the PROG/SYNC button until you hear 1 beep to exit program mode.

11. Set the electricity rate using the UP/DOWN arrows then click the PROG/SYNC button. **Tier 1: 8.06¢kWh**

12. Set the threshold. **950kWh**

13. Repeat Steps 11 & 12 for each TIER then exit programming mode by pressing and holding the PROG/SYNC button until you hear 1 beep.

Tier 2: 8.80¢kWh
No threshhold

For additional assistance please call one of our Customer Service agents toll free at: 1-866-607-2583, 7days a week between 8:00am to11:00pm.

PowerCost™
S E R I E S

Time of Use Rates from your utilities provider must be programmed into your PowerCost Monitor™ display. Here's how you do it.
PROGRAM TIME OF USE VIDEO: http://www.youtube.com/watch?v=_E_T2CxqzgA

PROG/SYNC BUTTON:
Enter/Exit Program Mode,
Move between settings

UP/DOWN BUTTONS:
Change values of
each setting

- Off-peak
- Mid-peak
- On-peak

For current TOU pricing, please go to www.ontarioenergyboard.ca

Refer to this chart for the Winter and Summer Time of Use segments. The first segments on your display starts at 7am.

1. Press and hold the PROG/SYNC button until you hear 1 beep. The hours on the clock will begin to flash.

2. Set the hour on the clock to the correct AM/PM hour using the UP/DOWN arrows then click the PROG/SYNC button once.

3. Set the minutes on the clock using the UP/DOWN arrows then click the PROG/SYNC button.

4. Set your preferred time format using the UP/DOWN arrows then click the PROG/SYNC button.

5. Set the day of the week using the UP/DOWN arrows then click the PROG/SYNC button.

6. Set your temperature preference using the UP/DOWN arrows then click the PROG/SYNC button.

7. Set your meter power factor using the UP/DOWN arrows then click the PROG/SYNC button. (1.0 for digital meters, 7.2 for disk type meters)

8. Choose your Rate Structure—2 or 3 Peak, using the UP/DOWN arrows then click the PROG/SYNC button.

9. SAT and SUN should now be flashing for your display to calculate OFF PEAK for these days. Use the UP/DOWN arrows to change this setting, then click the PROG/SYNC button.

10. Set the OFF PEAK rate using the UP/DOWN arrows then click the PROG/SYNC button to move to setting the MID and ON PEAK rate. Then click the PROG/SYNC button.

11. Now set the first time segment as indocated by a '1' above the clock and the hour will flash on the clock. Set the hour that the segment begins using the UP/DOWN arrows, then click the PROG/SYNC button.

12. Set the minutes using UP/DOWN arrows then click the PROG/SYNC button.

13. Set the PEAK to ON, MID or OFF, then click the PROG/SYNC button.

14. Repeat steps 12 to 14 for each time segment then press and hold the PROG/SYNC button after the last segment has been programmed until you hear 1 beep. Your display is now programmed.

For additional assistance please call one of our Customer Service agents toll free at:
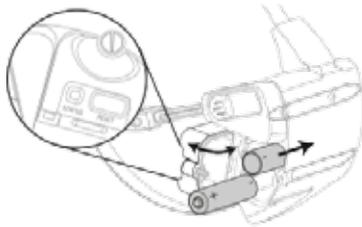1-866-607-2583, 7days a week between 8:00am to11:00pm.

BLUE LINE INNOVATIONS
REAL TIME ENERGY DATA

PowerCost™
S E R I E S

HOW TO
==Change batteries on in-home display==

Every so often you'll need to change the batteries on your in-home PowerCost Monitor™ display. Here's how you do it.

CHANGE BATTERIES VIDEO: http://www.youtube.com/watch?v=mVzplMfwhiU

INSTRUCTION FOR SENSOR

1. Using a Slotted or Phillips head screwdriver, turn the screw on the sensor battery door counter clockwise to open the door. (Do not remove the sealing grease on the battery door seal)

2. Replace the old batteries with new AA size batteries, close the door and tighten the screw 'snug' but not forced.
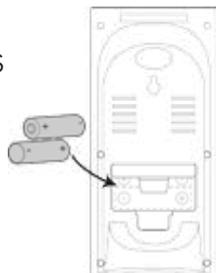
For best results in cold weather, use Lithium type AA size batteries in the Sensor Unit at the meter.

INSTRUCTION FOR DISPLAY

1. Remove the battery door on the back of the display and remove the old batteries.

2. Insert the new AA size batteries noting the correct orientation as shown in the illustration. + & - Symbols are embossed in the battery compartment to show correct orientation.

3. Replace battery door. The Display will resume showing consumption within one minute. You will now have to re-program the time and day.

DISPLAY REQUIRES (2) AA BATTERIES

RESET TIME AND DAY AFTER BATTERY CHANGE

1. Press and hold the PROG/SYNC button on top of the display until you hear a 'beep' and you will see the 'hour' flashing.

2. Change the hour by using the up/down arrows on the front of the in home display.

3. Press the PROG/SYNC button once to move to the minutes.

4. Use the up/down arrows again to change the minutes.

5. Press PROG/SYNC and select 12 or 24 hour time by using the up/down arrows.

6. Press PROG/SYNC then change the day of the week by using the to change the up/down arrows.

7. Press and hold the PROG/SYNC button until you hear a 'beep'.

For additional assistance please call one of our Customer Service agents toll free at: 1-866-607-2583, 7days a week between 8:00am to 11:00pm.

*Please respect the environment and recycle your old batteries accordingly.

BLUE LINE INNOVATIONS
REAL TIME ENERGY DATA