How Do I Read My Meter?

The smart meter that is installed on your home measures consumption or how much energy is being used, it also records when the energy is being used. Energy consumption is measured in kilowatt hours (kWh) and your smart meter measures and displays the total number of kWh's that has passed through the meter.

Smart meters have been installed since 2009. In that time there have been 3 versions of smart meters installed by Orangeville Hydro. Although the way the energy is measured hasn't changed, there has been some changes to the data that is displayed on the meter.

To be able to properly read your meter you will first need to determine which version of smart meter is installed. The version or meter type will be displayed on your meters name plate, see figure 1 below.

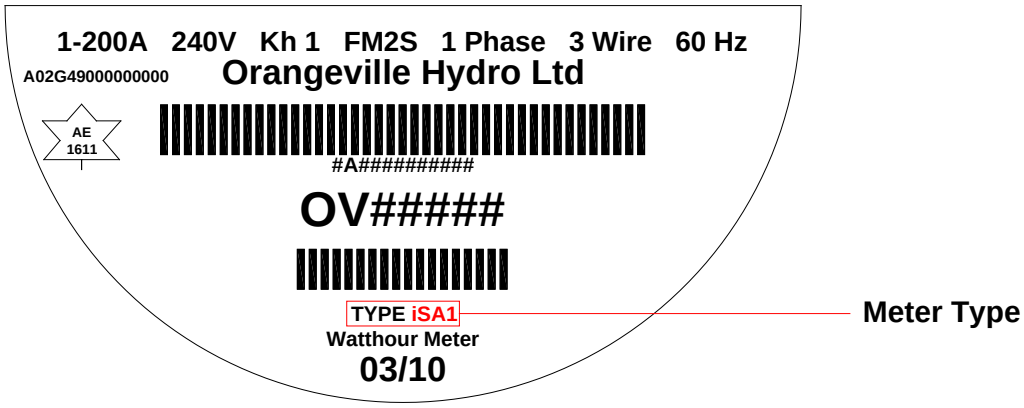


Figure 1

In figure 2 the meter's display and indicators are explained in more detail. The display and indicators are the same for all three version of meters.

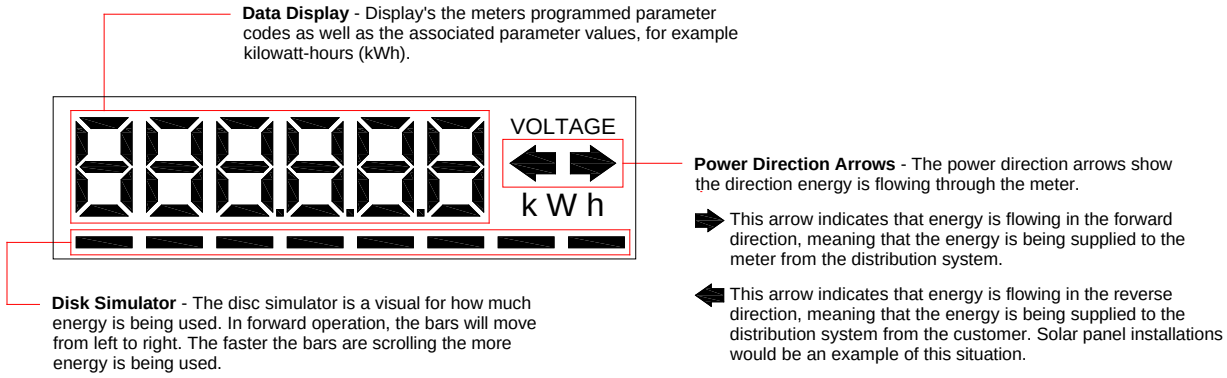
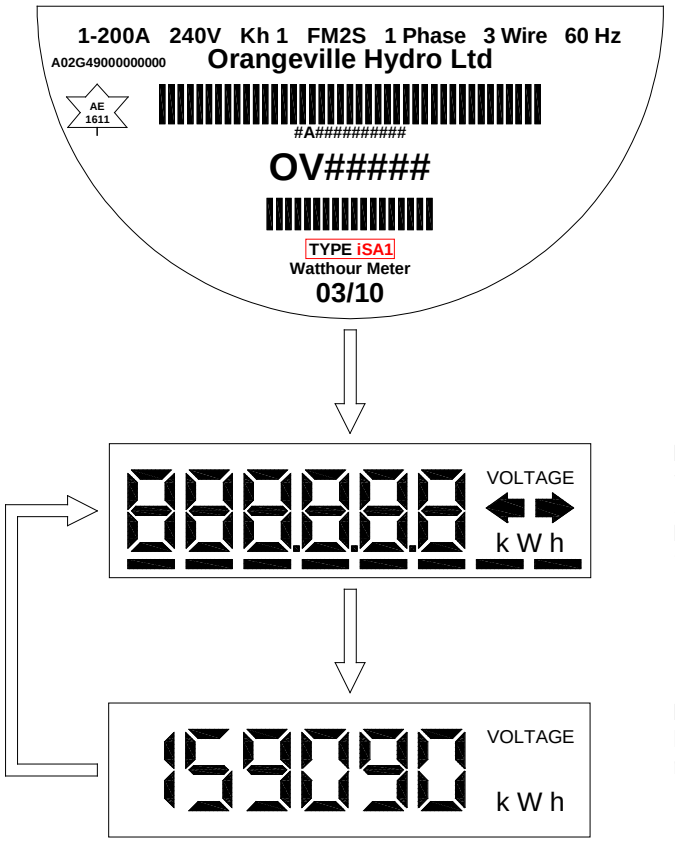


Figure 2

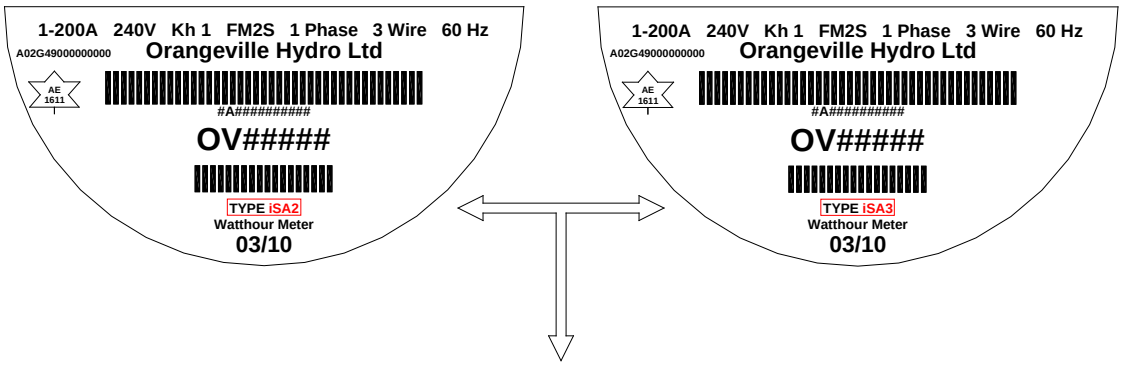
After you have determined what version of meter you are reading you can choose the correct figure to step you through the different screens displayed by the meter. Figure 3 describes the screens displayed by ISA1 meters, Figure 4 describes the screens displayed by both ISA2 and ISA3 meters.

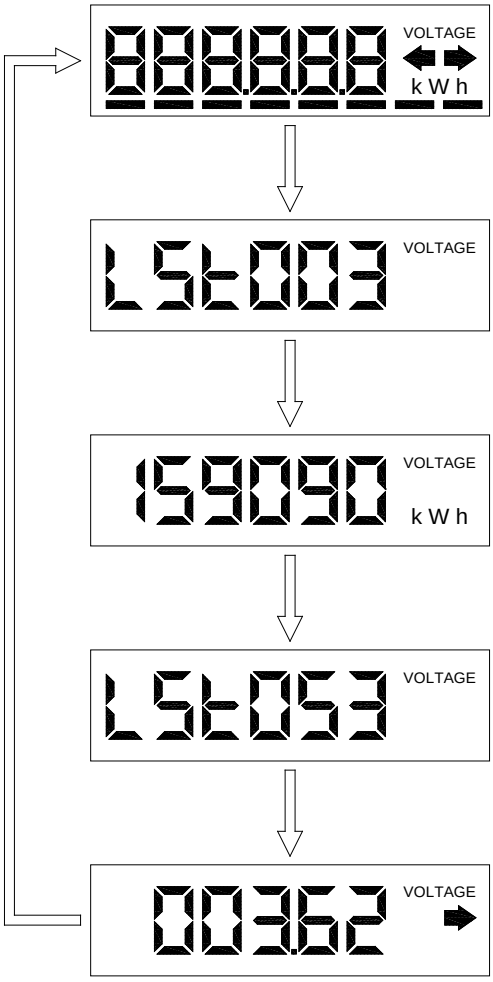


LCD Segment Test - Meter cycles this screen so the user can verify that each segment is illuminating properly. Without this screen a reading error may result from a missing segment. Example, an 8 may be displayed as a 9, depending on where the error occurs it could have a major effect on a reading.

Meter Consumption - Number displayed is the total kilowatt hours (kWh) that has passed through the meter. This is the reading that is used to determine a customers monthly bill.

Figure 3





LCD Segment Test - Meter cycles this screen so the user can verify that each segment is illuminating properly. Without this screen a reading error may result from a missing segment. Example, an 8 may be displayed as a 9, depending on where the error occurs it could have a major effect on a reading.

Meter Parameter - Displayed by the meter to indicate that the next value displayed will be the total kilowatt hours (kWh) that has passed through the meter.

Meter Consumption - Number displayed is the total kilowatt hours (kWh) that has passed through the meter. This is the reading that is used to determine a customers monthly bill.

Meter Parameter - Displayed by the meter to indicate that the next value displayed will be the total amperes (A) passing through the meter in real time.

Amperage - Number displayed is a snapshot of the total amperage (A) passing through the meter.