

## Chapter 4: Activating and Reading the E-CODER®)R900i™

This chapter defines how to read the E-CODER®)R900i™ to identify water leaks.

### Activating the LCD Using the Solar Panel

The E-CODER has a solar panel to power the Liquid Crystal Display (LCD).

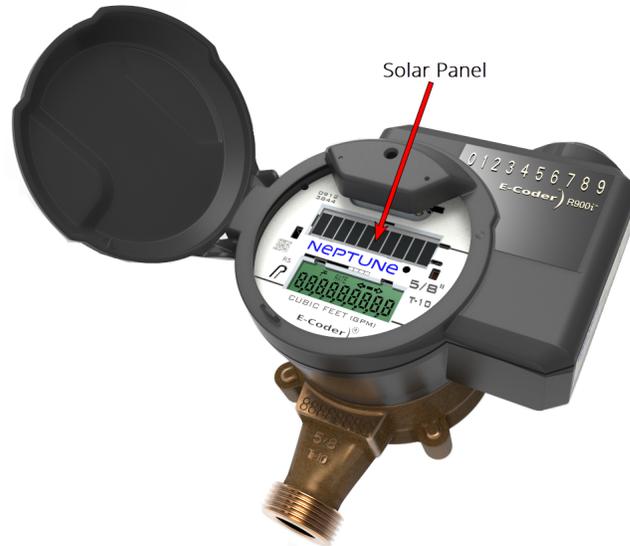


Figure 12 – Solar Panel for the E-CODER®)R900i™

The solar panel activates the LCD display when the unit is exposed to a light source. If the LCD does not reactivate as expected, shine a flashlight on the light sensor.

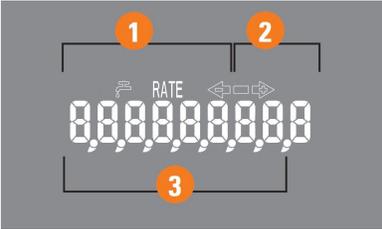


Figure 13 – Activating the E-CODER®)R900i™

## Read the Meter

The following table defines the information the meter presents.

Table 2 – Icons and Displays

Icon	Description
	Flow / Leak Indicator shows the direction of flow through the meter:
	ON Water in use.
	OFF Water not in use.
	Leak indicator displays a possible leak:
	OFF No leak indicated.
	Flashing Intermittent leak indicated. Water used during at least 50 of the 96 days of 15-minute intervals, during the previous 24-hour period.
	Continuous ON Continuous leak indicated. Water used during all 96 days of 15-minute intervals, during the previous 24-hour period.
	<p>Nine-digit LCD displays the meter reading in billing units of measure. The number displays in odometer style, reading left to right:</p> <ul style="list-style-type: none"> <li>• First four digits – typical billing digits.</li> <li>• Last three digits – testing units used for meter testing.</li> <li>• Fifth and sixth reading digits – reading units.</li> </ul>

## Common Causes of Leaks

If the E-CODER)R900i leak indicator is flashing or continuously on, it indicates a possible leak. The following table defines common causes of leaks.

Table 3 – Causes of Leaks

Possible Cause of Leak	Intermittent Leak	Continuous Leak
Outside faucet, garden hose, or sprinkler system leaking	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Toilet valve not sealed properly	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Toilet running		<input checked="" type="checkbox"/>
Faucet in kitchen or bathrooms leaking	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Ice maker leaking		<input checked="" type="checkbox"/>
Soaker hose in use		<input checked="" type="checkbox"/>
Leak between the water meter and the house		<input checked="" type="checkbox"/>
Washing machine leaking	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Dishwasher leaking	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hot water heater leaking		<input checked="" type="checkbox"/>
Yard watered for more than eight hours	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Continuous pet water device in use		<input checked="" type="checkbox"/>
Water-cooled air conditioner or heat pump	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Swimming pool filled		<input checked="" type="checkbox"/>
Other continuous use of water for 24 hours		<input checked="" type="checkbox"/>

## How to Tell if Water is in Use

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To determine if water is in use, complete the following steps:

1. Check the flow indicator  by closely watching it for two minutes.
2. Determine the following conditions. If the arrow is:
  - Flashing, then water is running very slowly.
  - Continuously ON, water is running.
  - Not flashing, water is not running.

## What to Do if There is a Leak

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If the E-CODER)R900i detects a leak, check the following to identify the leak source:

- All faucets
- Toilets and valves
- Ice maker and water dispenser
- Yard sand surrounding grounds for a wet spot indicating a leaking pipe

## If a Continuous Leak is Repaired

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If a continuous leak is found and repaired, complete the following steps.

1. Do not use any water for at least 15 minutes.
2. Check the leak icon .

If the leak indicator changes from continuous ON to flashing, then a continuous leak is no longer indicated.

## If an Intermittent Leak is Repaired

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If an intermittent leak is found and repaired, check the leak icon  after at least 24 hours. If the leak has been correctly repaired, the leak icon changes from flashing to OFF.