

Steps to Commission a Water Node

Step 1 - Acquire Supplies

- Acquire the MAC addresses to the water nodes (Contact Eaton Support if cannot locate)
- Field Supplies
- Three (3) ¼" thick, 2" long, by 1" wide magnets
- Handful of rubber bands
- Wire cutter (Cutting range 22ga – 32 ga)
- Box of gel cap wire connectors
- Spools of wire: 24ga, Solid, Red, Green, Black (or one three wire: red, green, black)
- Box course 1 ½" course screws to attach node to wall, stud etc.

Step 2 – Verify Water Meter Register is programmed correctly

- Using the upload tool provided by your water vendor
- Hook tool up to water meter register
- Verify the following:
 - Register is set to Remote/AMI readings
 - Register digits in tool match register head
 - Is the multiplier set correctly
 - Badger Meters – Is the Tamper flag turned off
- Sensus Touchread Water Meter Registers
 - The EATON water node cannot read this register
 - The water register must be replaced before a water node can be attached

Step 3 – Installing Node

- Wire node to water meter register
 - Wiring map

○ <u>Neptune Water Register</u>	
○ Register	Node
○ Green Wire/Screw	Black Wire
○ Red Wire/Screw	Green Wire
○ Black Wire/Screw	Red Wire
○ <u>Itron and Sensus Register</u>	
○ Register	Node
○ Green Wire/Screw	Green Wire
○ Red Wire/Screw	Red Wire
○ Black Wire/Screw	Black Wire

Step 4 – Commission Node

- Attach magnet to bottom of node with rubber band (On S/N tag, close to edge)
- Follow the commissioning steps in the Water Project Deployment and Troubleshooting Guide
- Verify through Node Mx Manager – Water register displays in “Meter SN” field should start with a “B”.

Step 5 – Verify node is not in “Ship” mode

- Follow ship mode verification steps in the Water Project Deployment and Troubleshooting Guide

Step 6 - Attach Water node

- Remove rubber band and magnet
- Attach water node to wall, stud, side of house, bottom of pit lid
- Basement – outside wall and high in ceiling
- Outside house – Close to electric meter
- Pit – (Must have plastic lid) Attach to underside of lid, use lid lock, or attach to post in pit

Step 7 – Troubleshooting

- Follow the troubleshooting steps in the Water Project Deployment and Troubleshooting Guide
- **Topics:**
 - Do not know if the node has been commissioned
 - Node can be read through Node MX Manger bit the meter register does not show
 - Node can read through Node Mx Manger, but no time and date is shown
 - In Network Manager, Node Serial number and sensor serial numbers are the same
 - Water node had been installed for some time, the water node has been commissioned, it is not in ship mode and a date and time is in Node Mx Manager.
 - Water node is displayed in Network Manager but the data has not populated in Yukon
 - Badger Water – Will not commission
 - Field Tool – Sporadic commissioning