

What is Beacon?

Beacon is a digital alert system for use with the Luneta Condition Monitoring Pod (CMP) and Luneta Oil Level Sensor.

What tools are required for installation?

Beacon does not require special tools. However the CMP and Sensor will require a wrench and thread-sealing paste.

What is included in a Beacon Kit?

- Beacon Module (p/n BEACON)
- Beacon Cable (p/n CABLE.1M, CABLE.3M)
- Sensor (p/n SENSOR.OL)
- Batteries, Energizer L91, qty 4 (p/n BATT.L91.4PK)
- CMP, Sensor Sight Glass (p/n CMPOD.XXX.SSG)

How to Use Beacon

- Position Beacon so that it is easy to see at a glance.
- When Beacon flashes, the oil level has dropped.
- When Beacon flashes because of low battery, follow the installation instructions to remove lens and replace batteries. Use only Energizer L91 batteries.
- Check Beacon daily to ensure an alert is not missed and that the batteries have power.
 - If Beacon inspections have been missed for more than 7 days, push power button to ensure the batteries still have a charge.

REV 202505

Troubleshooting

- If the lens is difficult to remove or attach:
 1. Make sure to grab and squeeze the lens at the provided grip point. See figure B.
 2. Ensure the Alignment arrow is over the unlocked icon. See figure B.
 3. Add silicone grease to the O-ring
- If the Sensor or CMP are leaking:
 1. Hand-tighten to ensure O-rings and gaskets are compressed
 2. Apply thread sealing paste to threads. **DO NOT** use Teflon Tape.
- If the Beacon does not flash during power up, check or replace the batteries.
- If the Beacon does not flash during sensor testing, check both M12 connections.
- If the Beacon does not stop flashing when the sensor is submerged in oil, check the sensor for obstruction or bubbles.
- If one LED flashes at the bottom of the Beacon lens, the batteries are low and need to be replaced.



We love seeing pictures of our products in use! Tag us @LunetaLLC on social media.



If you have questions or are unhappy with your purchase, email us at: sales@luneta.com



Beacon



LUNETA®
SMART PRODUCTS • RELIABLE MACHINES

Warnings and Disclaimers

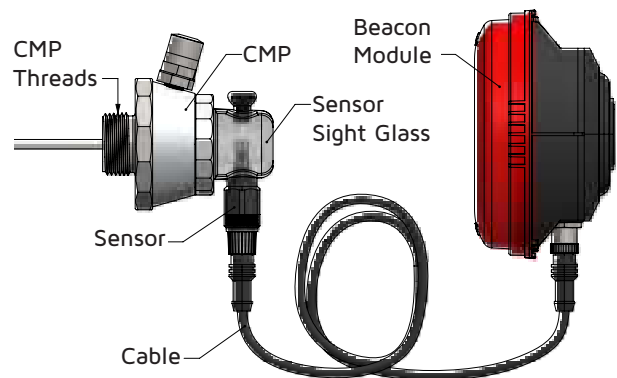
These disclaimers cover the Beacon Module, Oil Level Sensor, and Beacon Cable. For the CMP and Sensor Sight Glass, please refer to the instructions that came with them.

- Beacon contains an extremely strong magnet. Exercise caution to avoid being pinched.
- Do not submerge in water or place in location that could become submerged in water.
- Do not install the Beacon Module or the sensor on a machine with excessive vibration that could cause movement or damage.
- Do not use batteries other than Energizer L91.
- Do not install the sensor on anything other than a Luneta CMP with an upgraded Sensor Sight Glass.
- Do not install on a moving vehicle.
- Do not use on moving machine surfaces or machines exposed to shock or fluid surge conditions.
- Install the Beacon Module a safe distance away from moving machine parts, vehicles, and foot traffic.
- Do not use on machines with oil temperatures outside the range of -40°F to 140°F (-40°C to 60°C).
- Do not use on machines with ambient temperatures outside the range of -40°F to 140°F (-40°C to 60°C).
- Do not use cleaning solvents incompatible with Polycarbonate, ABS/PC, PVC, and Viton.
- The Luneta Beacon and Luneta Oil Level Sensor are to be used exclusively together and are not compatible with other sensors, modules, or control units.
- Visit Luneta.com for more details.

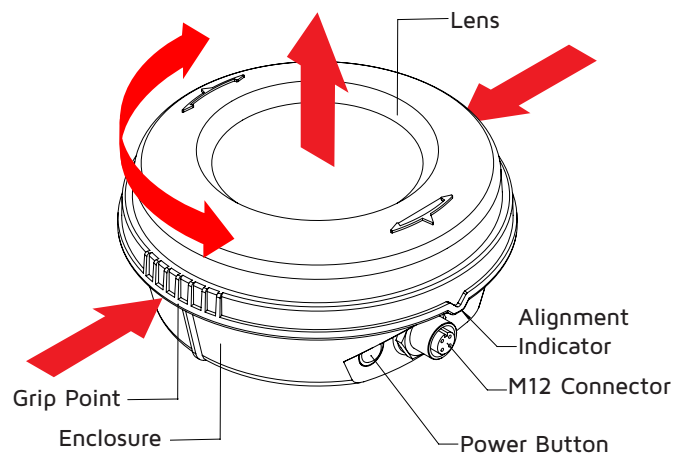
Beacon Installation Steps

1. Install the sensor into the CMP Sensor Sight Glass.
 - Thread the sensor into the sensor port until the O-ring on the sensor is fully compressed.
 - The sensor port has a larger opening than the steel indicator port.
 - Be careful not to over tighten and damage the Sight Glass threads.
2. Install the CMP into the machine and return the oil to its original level. Follow the CMP instructions included with it.
3. Check for leaks and tighten the CMP or Sensor as needed. If leaks persist, use thread sealing paste. **DO NOT** use Teflon tape.
4. Open the Beacon Module:
 - Grab and squeeze the lens at the grip points.
 - Turn the red lens counterclockwise until the alignment indicator is over the unlocked icon.
 - Pull the lens and the enclosure apart.
5. Insert the included AA batteries into the battery holder inside the Beacon Module. Only use energizer L91 batteries.
6. Reattach the lens.
 - Align the alignment indicator with the unlocked icon.
 - Push the parts together to compress the O-ring.
 - Rotate until the indicator arrow is over the locked icon.
 - Ensure the O-ring between the lens and the enclosure stays in the O-ring groove and does not get kinked.
7. Attach the included M12 cable between the Sensor and Beacon.
 - The cable has both a female and male connector.
 - The male attaches to the Beacon Module and the Female attaches to the Sensor.
 - Ensure the M12 threads on the connector are fully tightened. No tools are needed.
8. Power on the module by pushing the power button.
 - The lens will flash once to indicate it is powering up. The power up sequence takes about five seconds
 - **Note:** To power down the module push the power button for two seconds. The lens will flash twice to indicate it is powering down.
9. Verify that the Beacon module and sensor are working correctly.
 - If the Sensor is submerged in oil, the Beacon will not flash again after it powers up
 - If the Sensor is **Not** Submerged in oil, the Beacon will begin flashing.
 - You can rotate the Sight Glass on the CMP to simulate both conditions for verification
 - If the Beacon and/or Sensor are not working properly, refer to the troubleshooting section.
10. Use the magnet on the Beacon Module to place it in a location with a good line of sight for daily inspections.
 - **DO NOT** attach the Beacon Module to a surface with excessive vibration, which could cause it to move or be damaged.
11. Secure the Beacon Cable so it does not get caught or snagged.
12. This completes installation, refer to the rest of this manual or Luneta.com for more information.

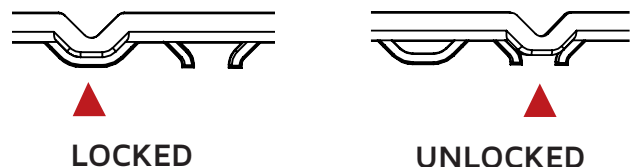
What's Included in the Beacon Kit



Opening the Beacon Module



Alignment Indicator Zoomed View



Flashing Sequence

