

# EnOcean

EnOcean is a wireless communication protocol optimized for ultra-low-power and energy-harvesting devices.

## Purpose in AOFS

- Batteryless environmental sensors
- Manual switches
- Low-frequency monitoring devices
- Remote trigger buttons

## Layer Mapping

- Sensor → Field Controller
- Local short-range communication

## Strengths

- Energy harvesting operation (no battery required)
- Extremely low maintenance
- Suitable for harsh or remote environments

## AOFS Compliance Notes

- Low transmission frequency requires robust timeout handling
- Missing sensor data must not lead to unsafe irrigation decisions
- Manual EnOcean triggers must be logged and validated
- Safety-critical decisions remain within Field Controller logic

From:  
<http://wiki.irrigation.afriticgroup.com/> - **Afritic Open Farming Standard**

Permanent link:  
<http://wiki.irrigation.afriticgroup.com/doku.php?id=protocols:enocean:start>

Last update: **2026/02/23 01:08**

