□□ Start Here — IoT & Sensors Guide

This book covers using LoRa mesh as the communication layer for sensor networks - environmental monitoring, smart agriculture, asset tracking, and data pipeline integration. Most of the detailed sensor-telemetry workflows here are built on **Meshtastic**; MeshCore's sensor support is newer and more limited (see the MeshCore Sensors section below for an honest summary of what it can and can't do).

□□ Quick Start by Goal

- **Just want temperature/humidity from my nodes:** Meshtastic Telemetry Module (in Meshtastic book)
- **Build a custom sensor node:** Building an Environmental Sensor Node
- **Get data into Grafana:** MQTT to InfluxDB and Grafana
- **Water quality / flood monitoring:** Water Quality and Flood Monitoring Networks
- **Air quality monitoring:** Air Quality and Environmental Monitoring Networks

□□ What's In This Book

Sensor Node Hardware

- Sensor Node Hardware Selection
- Building an Environmental Sensor Node
- Solar-Powered Sensor Node Deployment

Data Pipelines

- MQTT to InfluxDB and Grafana

- MQTT Integration for Sensor Data
- MeshCore Sensor Data Integration
- Home Assistant and Node-RED Integration

Application Guides

- Environmental Monitoring with Meshtastic
- Remote Asset Tracking
- Building a Mesh Weather Station Network
- Field Sensor Deployment Guide

Real-World Projects

- Water Quality and Flood Monitoring Networks
- Air Quality and Environmental Monitoring Networks

MeshCore Sensors

MeshCore sensor support is an **evolving, compile-time** capability - there is no standalone "Sensor" firmware variant, adverts do not carry sensor readings, and telemetry is pulled via a request/response protocol. Read these pages for an honest, scoped overview rather than a turnkey workflow:

- MeshCore Sensor Nodes - what compile-time sensor support actually is, how telemetry is delivered, and the real `meshcore_py` data path
- MeshCore Sensor CLI Reference - the real `sensor get` / `sensor set` / `sensor list` commands

➡ Related Books

- Meshtastic - Telemetry module and MQTT integration
- Room Servers & Gateways - MQTT gateways and Node-RED
- Solar & Power Systems - Powering remote sensor nodes

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