

1. Regulatory Compliance

1.1. FCC Compliance Statement

This Product Contains Transmitter Module FCC ID: RY20001

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment has been certified to comply with the limits for a class B computing device, pursuant to FCC Rules. In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.

2. Overview

The OmniSense Moisture Monitoring System provides for wireless monitoring of environmental conditions such as relative humidity, temperature, and wood moisture.

The three system components are Sensor, Gateway, and Central Host.

Sensors are battery operated with >15 year expected battery life in normal operating scenarios. Sensors measure the local environment conditions and periodically connect wirelessly to the gateway to allow the gateway to read the sensors monitoring log file. Sensors use the 915 MHz unlicensed ISM band and frequency hopping modulation techniques to establish a reliable wireless connection to a gateway.