GENERAL INFORMATION

1.1. Product description

CONFIGURATION
The IQ-TBOS Master Radio Module is used for Central Control System of TBOS™ and/or TBOS-II™ controllers equipped with TBOS-II™ Radio Adaptor, onto IQ V2.0 Software. It is the base of an IQ-TBOS Radio Network.

Base Satellite configuration
The IQ-TBOS Master Radio Module is installed in an IQ v2 Software Satellite. IQ Satellites are the Rain Bird ESP-LX Series Controller (ESP-LXD or ESP-LXME) equipped with a NCC Network Communication Cartridge.
The IQ-TBOS Master Radio Module is sharing communication received from the central (thru NCC) with TBOS™ Control Modules or/and TBOS Radio Relay(s).
The IQ-TBOS Master Radio Module has to be installed in an IQ SERVER Satellite (Satellites communicates directly with the computer and shares this communication link with other satellites)

1.2. Related Submittal(s) / Grant(s)

All host equipments used in the test configuration are FCC granted, when relevant.

1.3. Tested System Details

The FCC IDs for all equipment, with description of all cables used in the tested system are:

- Internal max frequencies: 32MHz

- **Input/output:**

- 1 x Connector 10pins
- 1 x SMA reverse connector

- **Auxiliaries used for testing:**

- 1 x Station ESP/LXME, Sn: 3231670, power supplied (P+N+E)

- **I/O cables used for testing:**

- 1 x Antenna cable SMA with antenna, shielded, length: .8m
- 1 x Power supply cable, unshielded, length: 2m

- **Equipment information:**

- External antenna connector: NO, internal connector for conducted tests.
- Radiated fundamental frequency band: [915.5-926.5]MHz, twelve channel
- Antenna type: Integral
- Stand By mode: Yes
- Normal power source: 24VAC supplied by ESP/LXME.
- Modulation Type: FSK +/- 140kHz
- Modulation Technology: DSSS
- Transfer rate: 38400 bps
- Maximum Antenna Gain: 2 dBi

1.4. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4-2003, FCC Part 15 Subpart C.
Radiated testing was performed at an antenna to EUT distance of 10 meters. During testing, all equipment's and cables were moved relative to each other in order to identify the worst case set-up.

1.5. Test facility

Tests have been performed from December 01st to 14th, 2011.

This test facility has been fully described in a report and accepted by FCC as compliant with the radiated and AC line conducted test site criteria in ANSI C63.4-2003 in a letter dated March 25th, 2008 (registration number 94821).
This test facility has also been accredited by COFRAC (French accreditation authority for European Union test lab accreditation organization) according to NF EN ISO/IEC 17025, accreditation number 1-1633 as compliant with test site criteria and competence in 47 CFR Part 15/ANSI C63.4 and EN55022/CISPR22 norms for 89/336/EEC European EMC Directive application. All pertinent data for this test facility remains unchanged.