

1 GENERAL INFORMATION

1.1 Product description

The UBET*1SL1 is a transmitter used with the UBRS*L1* receiver. It's classified as a **periodic transmitter** operating in the band 40.66-40.70MHz and above 70MHz, as defined in **section 15.231 of FCC Part 15, Subpart C**.

It provides solutions for a wide range of simple industrial and building automation applications. This series offers a large number of transmitters and receivers providing different types and numbers of functions designed to meet the wide range of user requirements.

It incorporates numerous features and significant technological advances :

- European and American frequencies in the 400MHz band

- FM Radio link

- Simultaneous commands

- Programming of functions using jump switches or microswitches, thus ensuring numerous possibilities (identity codes, operating modes, command interlocking, relay number controlled by the transmitter, button number controlling receiver) depending on model.

The UBET*1SL1 covers a complete range of models, which differ only by the number of channels. The tested product (UBET41SL1) is the most complete model (4channels) and it represents the worst case. Other models differ only by removing some components.

The transmitter module (included in the product) is a standard commercial module made by RADIOMETRIX Ltd.

The reference is TXM-433-A

This product is professionally installed. The antenna cannot be changed as it's included on the printed wiring board **(15.203 requirement)**.

The emission signal is active only when one (or more) of the button is pressed. As soon as (few milli-second) the button is released, the emission stops **(15.231.a requirement)**.

See attachment A for further description and technical features of the product submitted.

1.2 Related Submittal(s) / Grant(s)

Equipment is tested as a stand alone system.

1.3 Tested System Details

The transmitter has been tested in stand alone mode; One channel button is continuously push to generate the power signal.

1.4 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4-1992, and FCC PART 15, Subpart C, section 15.231.

Radiated testing was performed at an antenna to EUT distance of 3 meters.

1.5 Test facility

The test facility used to collect the radiated and conducted data is the SMEE Actions Mesures facility located ZI des Blanchisseries, 38500 VOIRON, France. 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 C63.4-1992 in a letter dated August 04, 1999 (Registration number 94821).

This test facility has also been accredited by COFRAC (French accreditation authority for European union test lab accreditation organization), accreditation number 1-0844 as compliant with test site criteria and competence in EN55022/CISPR22 norms for 89/336/EEC European EMC Directive application. All pertinent data for this test facility remains unchanged.

