

PHOENIX TESTLAB GmbH  
Product Certification  
Königswinkel 10  
D 32825 Blomberg

*Date: 21 November 2018*

Attn: Reviewing Engineer

**Subject: PART 15 UNLICENSED MODULAR TRANSMITTER APPROVAL**

To Whom It May Concern:

SATEL OY, hereby requests for part 15 unlicensed modular transmitter approval of our device, described as follows:

|             |                      |
|-------------|----------------------|
| Brand name: | <b>n.a.</b>          |
| Model name: | <b>SATEL-TR49</b>    |
| FCC ID:     | <b>MRBSATEL-TA37</b> |

In FCC Public Notice DA 00-1407 released June 26, 2000 there are eight numbered requirements that our device complies with:

**1. The modular transmitter must have its own shielding.**

Yes (see internal pictures F172629E3 Annex B).

**2. The modular transmitter must have buffered modulation/data inputs**

Yes, the module has two 8-bit unidirectional level translators for buffering the input and output signals.

**3. The modular transmitter must have its own power supply regulation**

Yes, LTC3612 (IC10)

**4. The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204c**

Yes, the antenna connector type is IPEX 20279-001 E-03.

Tested with the antennas CA915H-TNC\_A and CY930Y. These antennas are examples of 900MHz antennas that can be used. Other antennas with similar type and max 6 dBi gain are also allowed. For 400MHz licenced band only max antenna gain of 14 dBi is defined.

**5. The modular transmitter must be tested in a stand-alone configuration**

Yes, (see testreport F172629E3, Annex A)



**6. The modular transmitter must be labelled with its own FCC ID number**

The device is labelled with its own FCC ID

**7. The modular transmitter must comply with any specific rule or operating requirements applicable to the transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements.**

The device complies with the specific rules and operating requirements

**8. The modular transmitter must comply with any applicable RF exposure requirements.**

It complies with applicable RF exposure requirements.

Yours sincerely, in the Name of SATELY OY

*Signatory*

A handwritten signature in blue ink, appearing to read 'Heinrichs'.

*Kai Heinrichs, Graduated Certification Specialist*