

ETS Dr. Genz GmbH

Storkower Strasse 38C

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Ihre Zeichen, Nachricht vom
Your reference, Letter dated

Unsere Zeichen
Our reference
Schub/schub

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Date
10.03.2006

The module is only approved for use when installed in devices produced by the MSA Companies (see Operational Description).

The following statements are related to the demands for a limited modular approval as stated in the public notice DA 00-1407, released on June 26th 2000.

1. The modular transmitter must have its own RF shielding.
The LRR Module US has its own shielding on the RF side.
2. The modular transmitter must have buffered modulation/ data Inputs
All data Inputs/Outputs on the LRR Module US are buffered (refer to schematics).
3. The modular transmitter must have its own power supply regulation
The LRR Module has its own voltage regulator for the digital and as well for the RF circuit (refer to schematics).
4. The modular transmitter must comply with antenna requirements of Section 15.203 and 15.204c.
The LRR Module US potted has its own permanently antenna (refer to Drawing).
The LRR Module US non potted has an antenna connector and two tested/approved external antennas for external use (refer Test report).
Installers must provided with antenna installation instructions and transmitter operating conditions for satisfying RF. The LRR module may be operated only with the antenna with which it is authorized. A broken antenna is changed only by the Professional Installer.

5. The modular transmitter must be tested in a stand alone configuration
The LRR Module US was tested in a stand alone configuration at the FCC filed test laboratory:
ETS Dr. Genz GmbH
Storkower Strasse 38C
D-15526 Reichenwalde bei Berlin
Germany
6. The modular transmitter must be labelled with its own FCC ID number
The LRR module will be labelled with its own FCC ID: RPN-10069330
If the FCC ID is not visible when the LRR module is installed inside another device, then the outside of the device into which the module is installed also display a label referring to the enclosed module. This exterior label use wording "Contains FCC ID: RPN-10069330."
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 EUT is compliant with all applicable FCC rules. Detail instructions are given in the product Users Guide**
8. The modular transmitter must comply with any applicable RF exposure requirements.
The maximum measured power output is 424,62mW (26,28 dBm), the maximum antenna gain is 3,1 dBi = numeric gain 2,04 (see also MPE calculation - Exhibit RFExposure) The maximum permissible exposure is defined in 47 CFR 1.1310 with 1 mW/cm². The distance from the EUT's transmitting antenna where the exposure level reaches the maximum permitted level is calculated using the general equation:

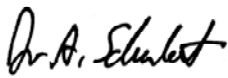
$$S = P \cdot G / 4 \pi R^2$$

$$S_{\max} = 0,083 \text{ mW/cm}^2,$$

The internal / external antennas used for this mobile transmitter must provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

End users may not be provided with the module installation instructions. Professional end users must be provided with transmitter operating conditions for satisfying RF exposure compliance.

For portable applications OEM integrators need SAR evaluation and an own FCC ID.



Kind regards

MSA AUER GmbH
R&D Instruments
Dr. Axel Schubert