



Schrader Electronics Ltd.

Model: MFR

TPMS ECU Receiver

User Manual

Introduction

The TPMS ECU will serve as the interface between TPMS Transmitters and the CAN communications bus within the Vehicle.

The TPMS ECU will receive RF transmissions from the Transmitters.

It will decode and analyse these transmissions and provide data on the tyre pressure and temperature and location for each wheel on the vehicle.

Based on the data from the Transmitters and an algorithm developed, the TPMS ECU will report warnings and tyre pressures over the CAN bus.

The TPMS ECU will be installed in a position on the vehicle to be agreed between Schrader and the Customer. The TPMS ECU location is key to its correct operation. It is expected that the CAN interface will be fixed and that different displays can be supported without any update to the Schrader TPMS ECU.

The receiver ECU shall decode the incoming RF signals, format the data, and transfer the data to the CAN bus within the vehicle as required by the customer or supplier. The system shall also automatically detect the wheel locations of each transmitter on the vehicle.

Environmental compatibility requirements

The TPMS ECU shall operate without degradation over the temperature range -40°C to +105°C. All components of the TPMS ECU shall be rated to a temperature range which covers -40o C to +105o C.

The TPMS ECU Enclosure is resilient against the environment in which it is to be placed.

The TPMS ECU complies with ETSI (RTTE governed), FCC (USA) and IC (Canada) regulatory requirements.

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Regulatory Compliance

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

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.

(Section 15.21)

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

Label: (Section 15.19)(a)(3)

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