



Functional Description / User Manual

of

Continental

Remote Control System

A2C81494900

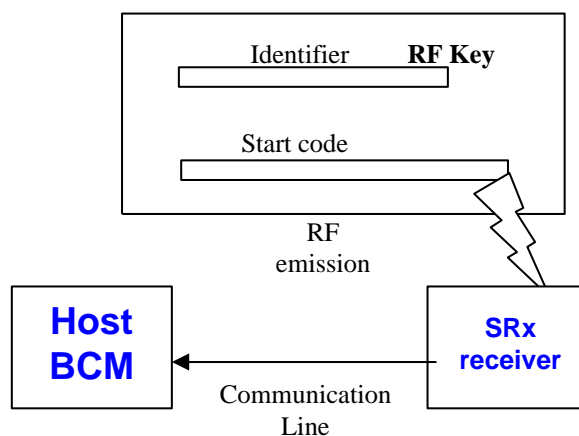
General description of the RF transmitter

The RF (radio frequency) remote control system consists of a RF transmitter and a RF receiver mounted within the control unit.

The described system is a radio-frequency remote control for central doors locking / unlocking, trunk release and Panic activity of an automotive vehicle.

System Operation:

Remote keyless entry function is provided by the RF system of the Rx and the RKE transmitter. The operation of these functions are as follows:



Remote keyless Entry:

The RKE transmitter operate at 315 MHz. ASK modulated data signal is transmitted to the Rx which receives the encrypted RF signal. Then, it send the data of the signal to corresponding the host Body control module through the communication line. This transmitter is used to transmit an information for locking or unlocking of the vehicle by an unidirectional RF transmission line for normal remote operation by pressing a button.

In general the following functions are provided:

- Lock the car
- Unlock the car
- Unlock the trunk of the car
- Panic

Typical usage pattern RKE transmitter

30 lock / unlock operations in 24 hours with a typical transmission duration of 270 milliseconds → 1.25 lock / unlock operations / hour

Transmitter ON 0.3375 seconds / hour

Transmitter OFF 3,599.6625 seconds / hour

Duty Cycle: $T_{ON} / T_{(ON+OFF)} \times 100\% = 0.3375 / 3,600 \times 100\% = 0,009\%$

The Modulation used is ASK Manchester coded , therefore the radiated energy during one telegram is ON only a half of the time of the telegram this means and AVG factor of $20\text{Log}(1/2) = -6\text{dB}$

Variants:

Model	Description
A2C81494900	Transmitter 4button ASK 315MHz

Block diagram



Technical data transmitter

Carrier frequency:	315.00MHz± 150kHz
Output power :	< 75.6dBuV/m @3m
Modulation:	ASK
Method of frequency generation:	SAW Resonator
Number of channels:	1
Supply voltage:	3 V
Battery type:	lithium, CR 2025

NOTE:

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

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

Label design

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