

Technical Description

Key: **5WK4 9264**

User Manual / Functional Description

of the

Siemens VDO

Radio Frequency Transmitter

Type

5WK49264

1. SYSTEM OVERVIEW

The RF remote control system consists of a RF transmitter and a RF receiver. The RF transmitter is mechanically integrated in the head of the key. This transmitter is used to transmit information for locking or unlocking the vehicle as also Trunk Lid/Approach Light/Panic/comfort open/Comfort Close operations by an unidirectional RF transmission line for normal remote operation by pressing a button. The information will be transmitted on the first channel and afterwards also on the second channel.

2. POWER SUPPLY

The transmitter is provided with 1 Lithium battery (CR 2430) that gives a tension of feeding of +3V.

The battery inversion is protected mechanically.

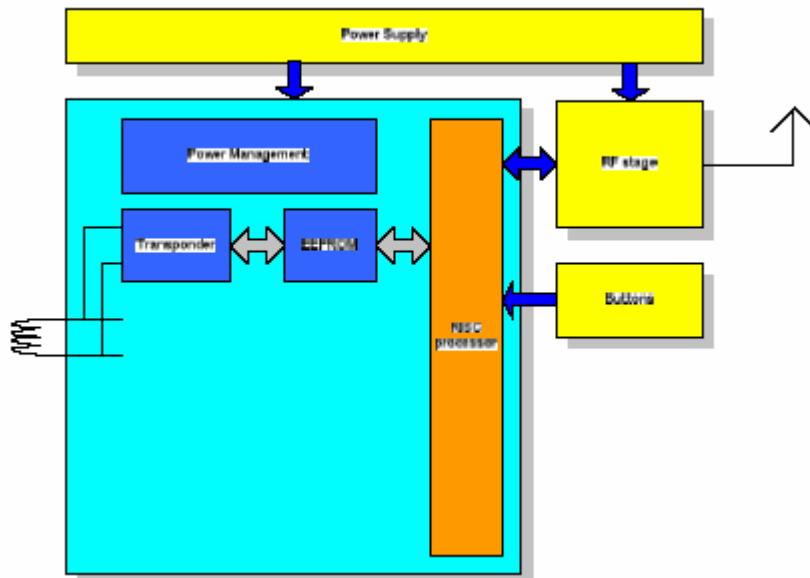
3. BUTTONS

All buttons are on the top side of the key housing. They are arranged in the following way.



4. BLOCK DIAGRAMM

The block diagram below shows the main electronic units of the transmitter:



5. TYPICAL USAGE PATTERN

25 lock/unlock /Trunk Lid/Approach Light/Panic/comfort open/Comfort Close operations in 24 hours with average transmission duration of 0.84 seconds → 1, 04 lock/unlock operations within one hour

Transmitter ON 0.875 seconds / hour

Transmitter OFF 3599.12 seconds / hour

Duty Cycle: $T_{ON} / T_{(ON+OFF)} \times 100\% = 0.875 / 3,600 \times 100\% = 0.02\%$

6. TECHNICAL DESCRIPTION

Carrier frequency (incl. Tolerance):	433, 67 MHz / 434,251MHz
Output power/field strength:	< 10 mW
Type of modulation:	GFSK
Method of frequency generation:	fractional N PLL synthesizer
Number of channels:	2 ch
Power supply:	battery (CR 2430)
Nominal voltage	3,0V
Voltage supply range:	2,4V ... 3,2V
Type of battery:	lithium
Transmission range:	100 m (system range)
Type of antenna:	PCB loop antenna
Length/size of antenna:	ca. 4 ...5cm

7. LABEL DESIGN CANADA, EUROPE, USA

Siemens VDO
5WK49264

IC: 267T-5WK49264
FCC ID:KR55WK49264



8. ENTRY OWNERS MANUAL CANADA, USA:

NOTE

This device complies with part 15 of the FCC Rules and RSS-210. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept interference received, including interference that may cause undesired operation.

CAUTION

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