

Description of Operation

The 2017 Chrysler RU FOBIK performs the following functional modes together with the other modules of the car access system:

- RKE

Remote keyless entry operation is initiated when a user presses a button on the FOBIK to send an ASK RF message to the RFHUB of the system. The message sent to the RFHUB corresponds to which button is pressed. This mode is powered by the CR2032 battery.

The RF RKE messages have the following characteristics:

Parameter	NA/EU	Units
RF Frequency	433.92	MHz
Modulation	ASK	-
Data Rate	2.4	kbps

- PASE

Passive Start and Entry mode is initiated when a user attempts to open a door or the trunk of the car, or when they push the start-stop button of the KIN module in the system. Either of these actions triggers a LF message from the car to be sent to the FOBIK. The fob receives the LF message from the car and responds back with a FSK RF message to the RFHUB. The RF message to the car includes RSSI information to confirm whether the fob is inside or outside of the car, along with the appropriate command. This mode is powered by the CR2032 battery.

The RF PASE messages have the following characteristics:

Parameter	NA/EU	Units
RF Frequency	433.92	MHz
Modulation	FSK	-
FM Deviation	+/- 14	KHz
Data Rate	9.6	kbps

- Transponder

Transponder mode is used when the KIN module of the system initializes an immobilizer authentication to start the car. The CR2032 battery is not necessary for the operation of transponder mode. The communication is triggered by the KIN module and operates at 125KHz to authenticate the key.