Fobik Description of Operation

The 2011 Chrysler RF Hub FobIK is a transmitter designed to provide remote keyless entry, passive entry, passive engine start, and immobilization functionality to the RF Hub system.

- RKE
  Remote keyless entry operation is initiated when a user presses a button on the Hub FobIK to send an ASK RF message to the RF Hub. The message sent to the RF Hub corresponds to which button is pressed. This mode is powered by the CR2032 battery.

Parameter	NA/EU	Units
RF Frequency	433.92	MHz
RF Modulation	ASK	-
RF Bit Rate	2.4	kpbs

- 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. Either of these actions triggers a LF message from the car to be sent to the Hub FobIK. The fob receives the LF message from the car and responds back with a FSK RF message to the RF Hub. 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.

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

- Transponder
  Transponder mode where the Hub FobIK is used to press the start-stop button of the KIN module to initial an immobilizer authentication to start the car. The CR2032 battery is not necessary for the operation of transponder mode and no buttons are pressed. The communication is triggered by the KIN module and communicates at 125KHz for approximately 100ms while the secret key of the Hub FobIK is authenticated.