

Technical specifications

Working temperature: from -5°C to +55°C

Power: CR2430 Lithium battery

“Bd”

With “Bidi” reception and transmission are supported.

Working Frequency: 433.92 MHz

BW = 200 KHz

Modulation: GFSK (BT = 0.5).

Fdev: 35 KHz.

Datarate: 76.8 Kbit/s.

Max Packet duration 7.8 ms

LBT: Yes

Radiated power (ERP): < 0 dBm

$T_{ON} = 7,8ms$

$DC = T_{ON} / 100ms = 0,078$

20Log (DC) = - 22

Average correction factor = 20dB

“O-code/A”

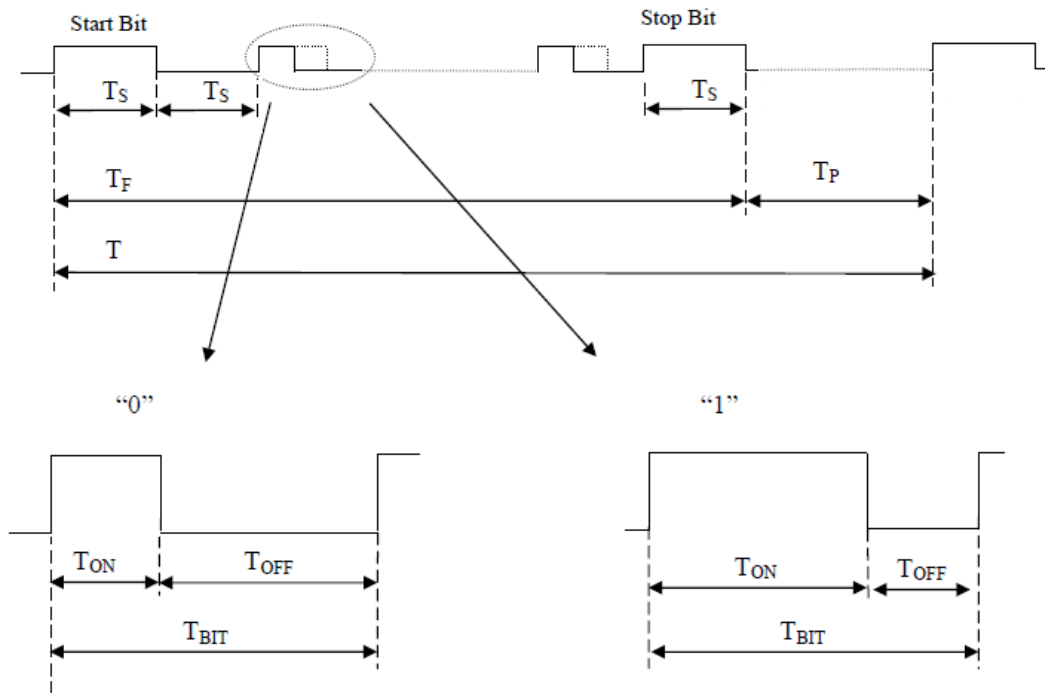
Radiated power (ERP): < 0 dBm

Center frequency: 433.92 MHz ± 100KHz

Modulation: AM-OOK wide band

Datarate: about 1Kbit/s

The code word is made up of several parts. Each code word contains a Start Bit (0.66ms+0.66ms), 72bit of data and a Stop Bit (0.66ms) followed by a guard period (50.5ms) before another code word can begin.



FRAME PERIOD: $T_F = 49.5 \text{ ms}$

PAUSE: $T_P = 50.5 \text{ ms}$

START BIT: $0.66\text{ms} + 0.66\text{ms}$

SINGLE BIT: $T_{BIT} = 0.66 \text{ ms}$

IMPULSE TYPE "0": $T_{ON} = 0.22 \text{ ms}$, $T_{OFF} = 0.44 \text{ ms}$

IMPULSE TYPE "1": $T_{ON} = 0.44 \text{ ms}$, $T_{OFF} = 0.22 \text{ ms}$

STOP BIT: 0.66 ms

$T_{ON} \text{ (worst case)} = 0.66 + 72 \cdot 0.44 + 0.66 = 33\text{ms}$

$DC = T_{ON} / 100 \text{ ms} = 0,33$

$20 \text{ LOG}(DC) = - 9.62$

Instructions Manual

For details, please read the annex IS0808A00MM