

Details of Data Frame Format:

11bits-syn bits: 00000000000_b

1bit-start bit: 1_b

3bits-Channel ID: Channel ID:

- Channel 1 (001_b)
- Channel 2 (000_b)
- Channel 3 (010_b)

11bits-temperature(Hex):

- Temperature range: $-50^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- Oven $+70^{\circ}\text{C}$: 700_H
- Below -50°C : 600_H
- $-50^{\circ}\text{C} \sim +70^{\circ}\text{C}$: Hex (temperature_d + 500_d)
e.g. $25.5^{\circ}\text{C} \Rightarrow \text{Hex}(255_{\text{d}}+500_{\text{d}}) \Rightarrow 2\text{F}3_{\text{H}}$

7bits-humidity(Hex):

- Humidity range: 0%~100%
- Direct converts Dec to Hex value

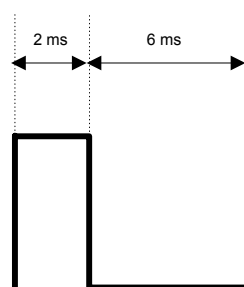
3bits- miscellanies (low battery): Bit 3 is low battery status, if this bit is 1, it indicate low battery now. If this bit is 0, it indicates enough battery now.

- Battery Enough: 000
- Battery Low: 100

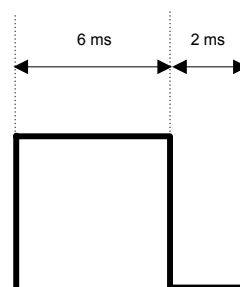
4bits-CRC check code: It is generated by $P(x)=11001_{\text{b}}$ and data (3bits - Channel ID, 11bits – temperature (Hex), 7bits - humidity (Hex), 3bits – miscellanies)

Total number of bit is 40

Logic "0"



Logic "1"



10

REF -18.0 dBm

AT 10 dB

PEAK

LOG

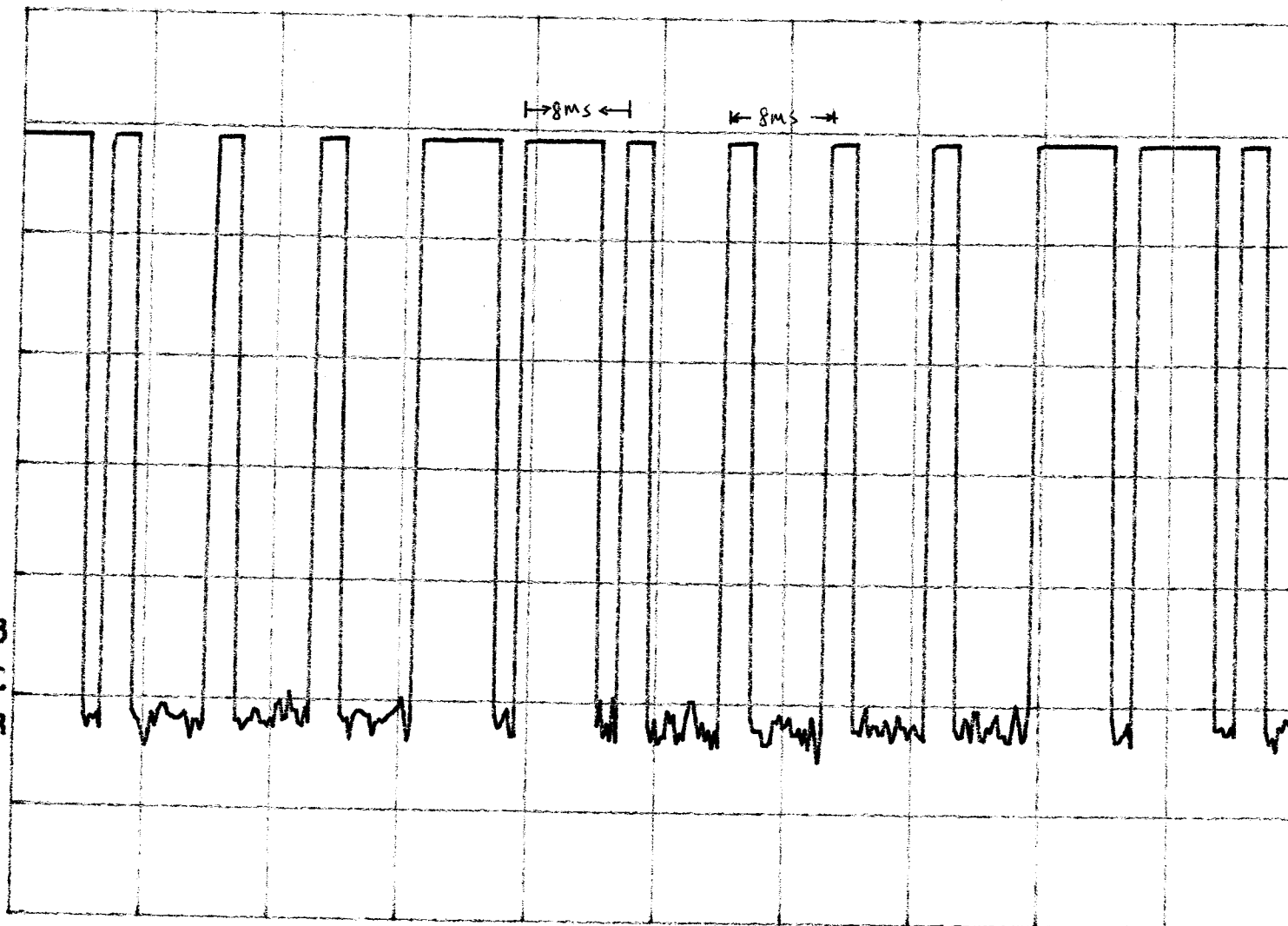
10

dB/

VA SB

SC VC

CORR



CENTER 433.911 MHz

#RES BW 100 KHz

#VBW 100 KHz

SPAN 0 Hz

#SWP 100 msec

tip

REF -18.0 dBm

AT 10 dB

PEAK

LOG

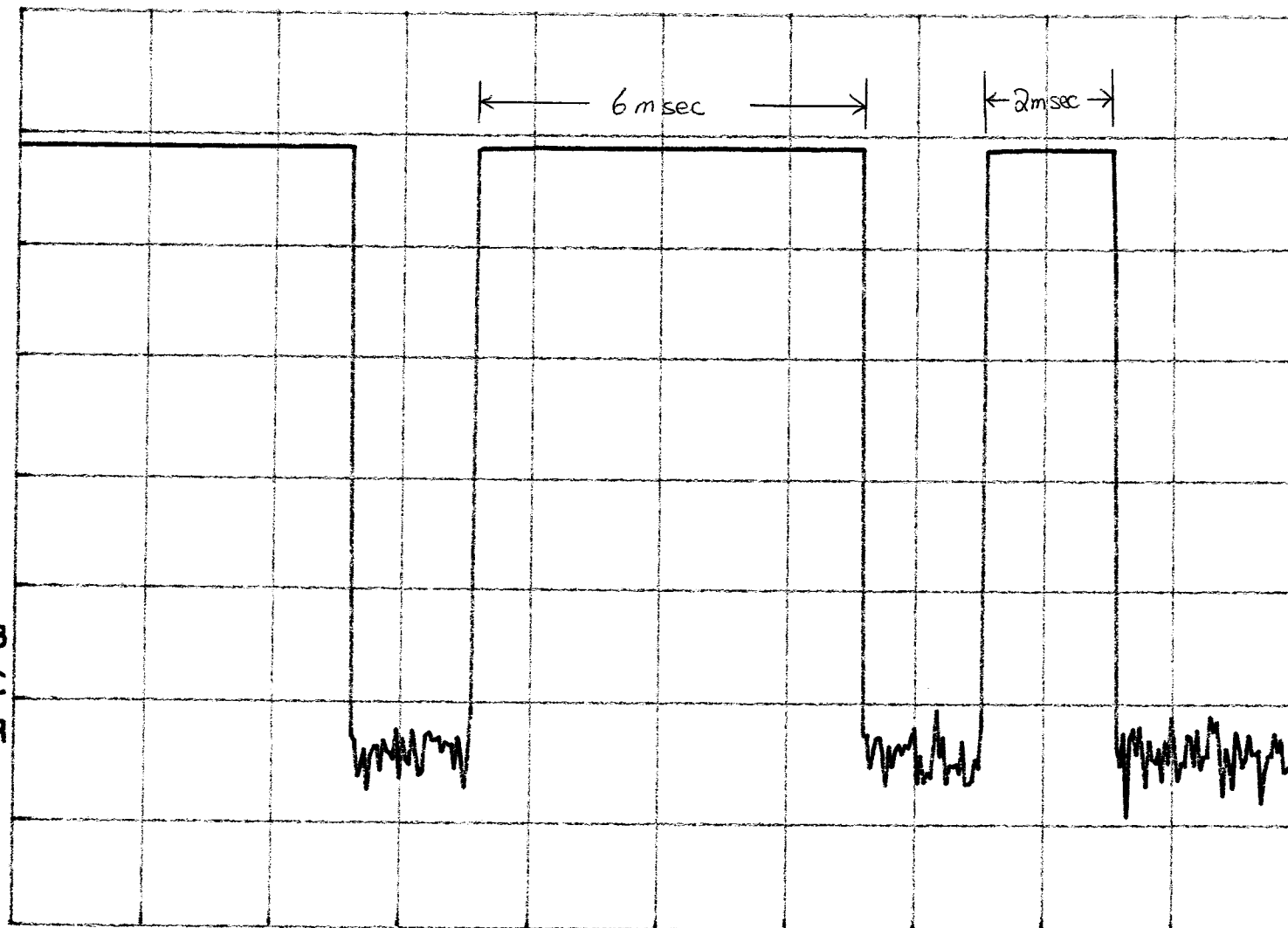
10

dB/

VA SB

SC VC

CORR



CENTER 433.911 MHz

#RES BW 100 kHz

#VBW 100 kHz

SPAN 0 Hz

#SWP 20.0 msec

hp

MKR 975.00 msec

REF -7.0 dBm

AT 10 dB

.02 dB

PEAK

LOG

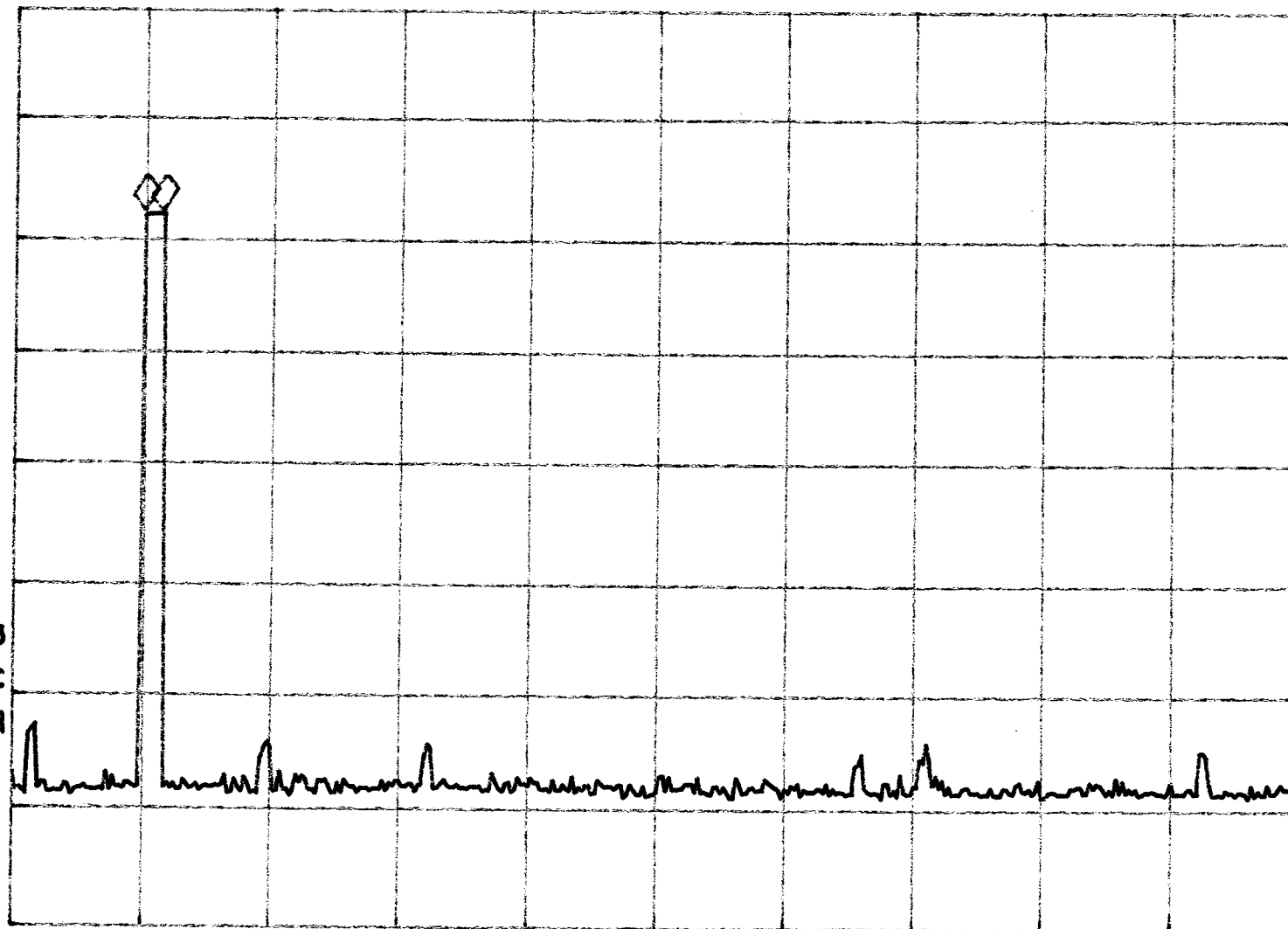
10

dB/

VA SB

SC FC

CORR



CENTER 433.911 MHz

SPAN 0 Hz

#RES BW 100 KHz

#VBW 100 KHz

#SWP 65.0 sec