

Data protocol in K0240T

- In each cycle of data transmission, it consists of 5 exactly the same data string with details of each string as follows:

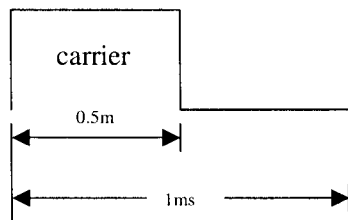
	Description	No. of cycles	Data format (binary)
A	Data Header	4	1 0 1 0
B	Pre-command code	1	1 0 1 1
C	Command data	1	4 bits
D	Statue data	1	4 bits
E	Checksum – total number of ‘1’ within (C) to (D) in MOD16	1	4 bits

Note: MSB will be transmitted first for all nibbles of data

Remark:

When a ‘0’ is transmitted,

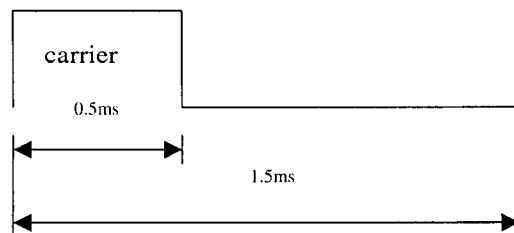
- Carrier of 433.92MHz is transmitted for 0.5 ms and inhibited for 0.5 ms



**Worst Case: 50% duty cycle
Average Factor: -6.0 dB**

When a ‘1’ is transmitted,

- Carrier of 433.92MHz is transmitted for 0.5 ms and inhibited for 1 ms



- End -

20

REF -22.0 dBm

AT 10 dB

PEAK

LOG

10

dB/

*

0.5ms

VA SB

SC VC

CORR

CENTER 433.865 MHz

SPAN 0 Hz

#RES BW 3.0 MHz

#VBW 3 MHz

#SWP 15.0 msec

40

REF -22.0 dBm

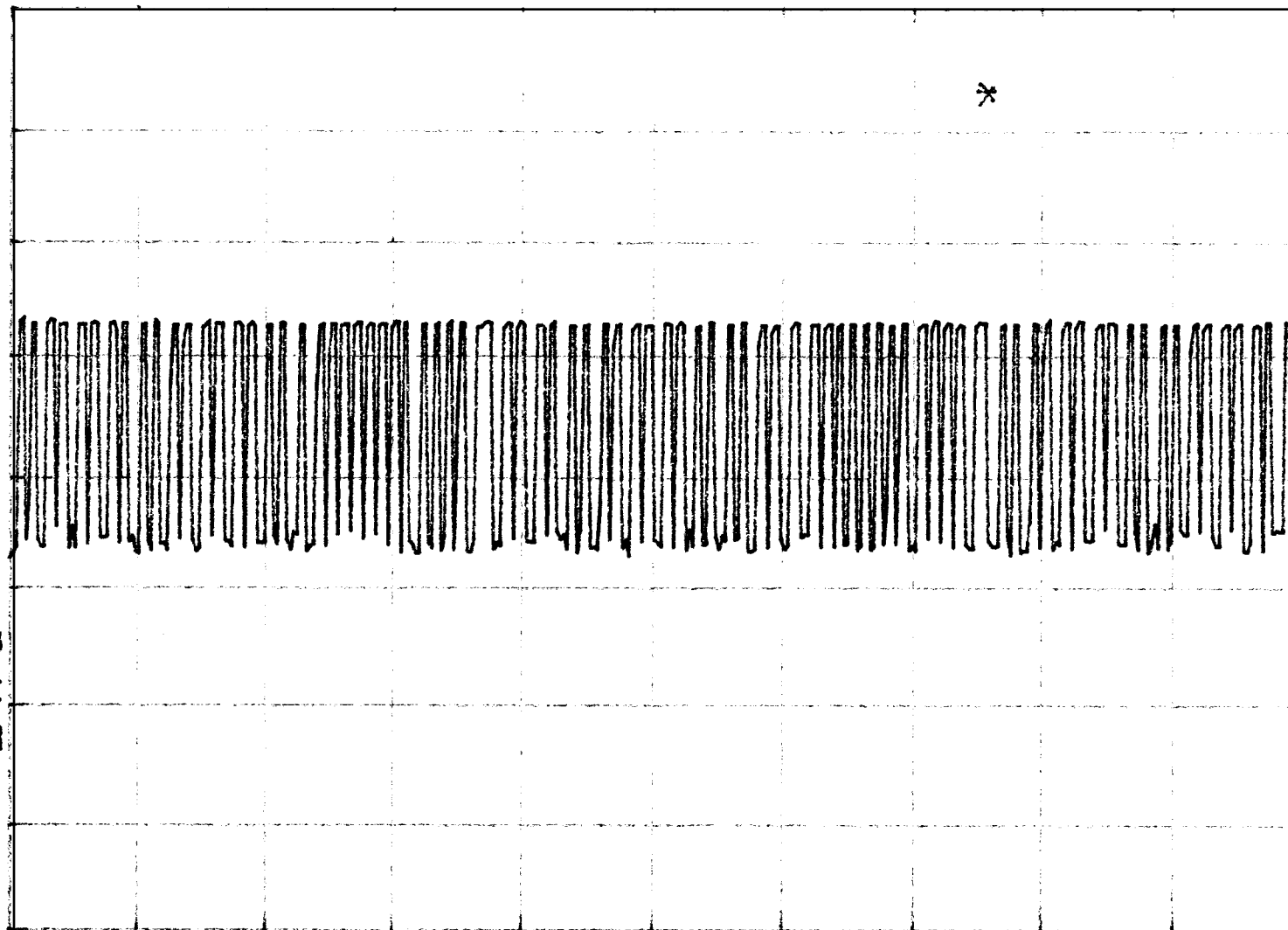
AT 10 dB

PEAK

LOG

10
dB/

VA SB
SC VC
CORR



CENTER 433.865 MHz

SPAN 0 Hz

#RES BW 3.0 MHz

#VBW 3 MHz

#SWP 100 msec

4/10

REF -22.0 dBm

AT 10 dB

MKR 100.00 msec

-46.72 dBm

PEAK

LOG

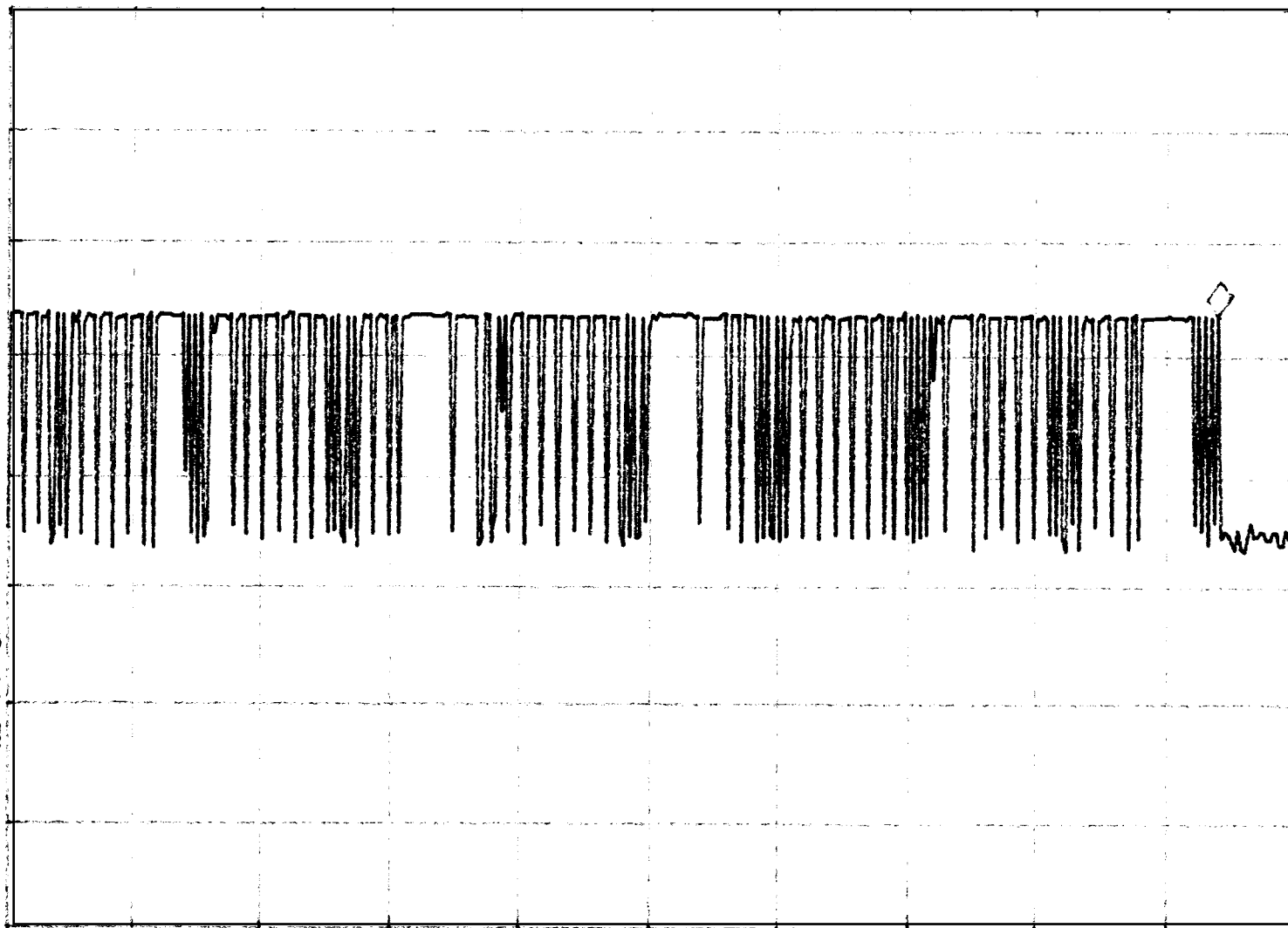
10

dB/

VA SB

SC VC

CORR



CENTER 433.865 MHz

SPAN 0 Hz

#RES BW 3.0 MHz

#VBW 3 MHz

#SWP 200 msec

✱

REF -31.0 dBm

AT 10 dB

MARK 10.750 sec

-1.71 dB

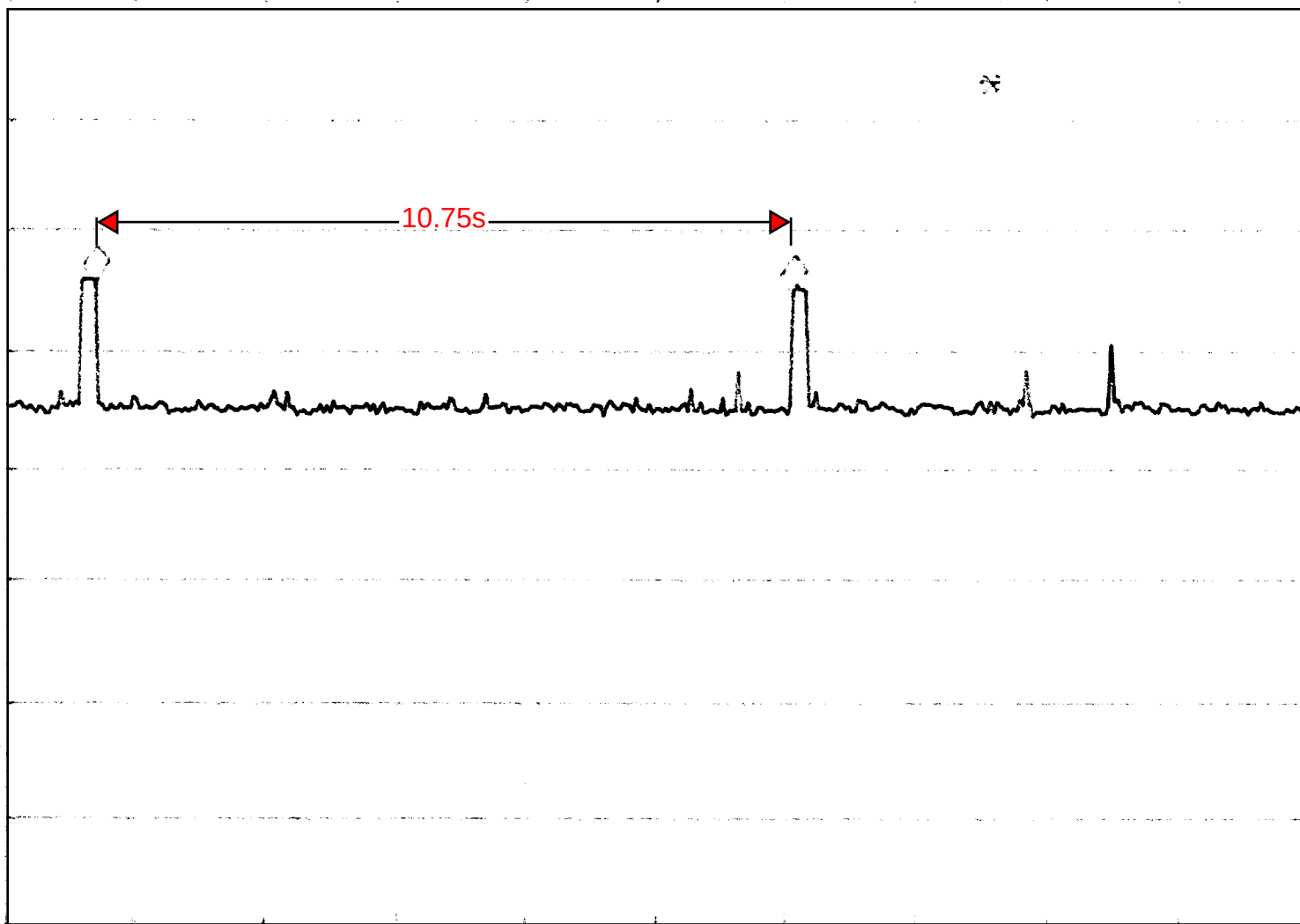
Pre-Alert,
Count down before Alert

PEAK

LOG

10

dB



VA SB

SC FC

CORR

CENTER 434.020 MHz

SPAN 0 Hz

#RES BW 3.0 MHz

#VBW 3 MHz

#SWP 20.0 sec