

Technical Description

Remote Description

Item	Description	Function	Component
1	CPU	MCU, It controls the display, button. Encode the instruction to the IC2 and decode the signal from the IC2.	IC1
2	Oscillator	crystal oscillator for the CPU	X1
	Oscillator	crystal oscillator for the IC2	XTAL
3	button	Perform relevant function	S1-S7
4	433M wireless transmit-receive module	modulate, amplify the signal from IC1, the modulated RF signal then passes through the matching network to the antenna. Select, receive and Demodulate the RF signal.	IC2
5	Antenna	Receive and Transmit modulation RF signal	ANT
6	Display circuit	Show the status of temperature, time or fault	LCD

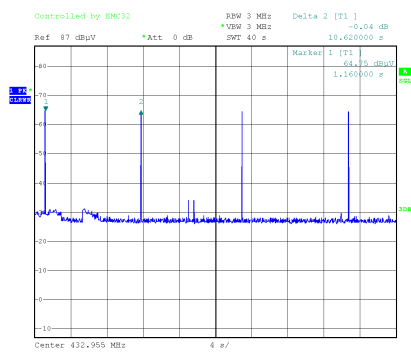
Type of modulation: FSK modulation

Type of antenna: internal, wire antenna.

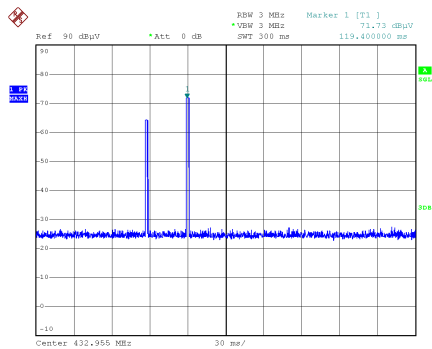
About the timing:

for the "meat probe" function.

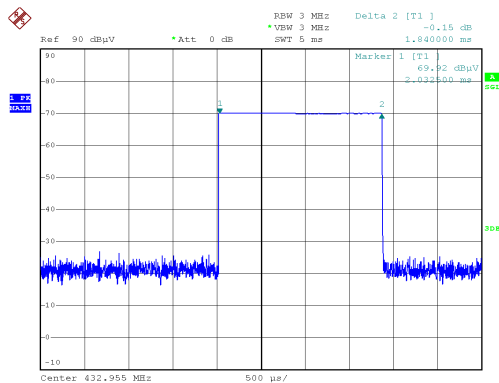
When the "meat probe" button on remote controller is pressed, the remote control would send the request to the Electric Smoker, and receiving the data from the Electric Smoker. The transmission duration of one complete pulse train is 1.84ms. The meat probe function of the remote controller will be disabled for 10.62 sec. by software after it is activated.



The first impulse is from the remote control. The second impulse is from the Electric Smoker.



The transmission duration of one complete pulse train is 1.84ms.



For “set temp”, “light”, “set time”, “+/-” functions

The remote controller transmit the instruction to the Electric Smoker, the transmission duration of one complete pulse train is 4.12sec. When a key was pressed, the remote controller will transmit four pulses in 4.12 sec.

15.231(a) for other functions

