Harbor Breeze RF Codes

Sniffing the Codes

Codes were sniffed with an RFToy running ESPHome. I have not been successful in controlling the fan by transmitting a code from ESPHome, but I did have initial success with recording and retransmitting with Pilight. This suggests it's doable with an ESP, but I'm missing something in the protocol.

Codes

Generic

Action	Code
Light (Short)	`011101000010101010010101`
Light (Long)	`011101000010101001010101`
Timer - 2h	`011101000010101010010001`
Timer - 4h	`011101000010101001010001`
Timer - 8h	`011101000010101011010001`
House	`011101000010101011110001`
Clock	`011101000010101011011101`

Summer

Action	Code
Activate	`011101000010101000010101`
Power (Short)	`011101000010101000000101`
Power (Long)	`011101000010101001110101`
Level 1	`011101000010101010000101`
Level 2	`011101000010101001000101`
Level 3	`011101000010101011000101`
Level 4	`011101000010101000100101`
Level 5	`011101000010101010100101`
Level 6	`011101000010101001100101`
Breeze	`011101000010101011100101`

Winter

Action	Code
Activate	`01110100001010100011101`
Power (Short)	`01110100001010100001101`
Power (Long)	`01110100001010100111101`
Level 1	`01110100001010101001101`
Level 2	`01110100001010100101101`
Level 3	`01110100001010101101101`
Level 4	`01110100001010100010110 1`
Level 5	`01110100001010101010110 1`
Level 6	`01110100001010100110110 1`
Breeze	`01110100001010101110110 1`

Fan Direction

`0111010000101010000 1x101`

x = `0` for summer, `1` for winter

References

1. "A25-TX012 TX012 Transmitter by DawnSun Electronic Technology.Co.,Ltd.ZhongShan". (2013, April 12). FCC ID. Retrieved August 11, 2021.

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