Model	FDC508HES3	
Contoller	RCD-H-E	
Comms Rate	1200 bps	
Parity	Even	
Type	One Wire Half Duplex	
CNB Serial Comr	ns Connector	
X	VCC 10.6V at Controller	
Υ	Comms	
Z	GND	

Three Packets	sent in continuous cycle			
Protocol	Size	Direction	Duration	Gap to Next Packet
Packet 1	16 bytes	Controller to Aircon	150ms	150ms
Packet 2	16 bytes	Aircon to Controller	150ms	150ms
Packet 3	16 bytes	Controller to Aircon	150ms	450ms

Protocol Details														
Packet 1														
Byte	Function	Data												
D	Header	00												
1	Header	8f												
2	Mode	Auto On: b0	Auto Off: 90	Dry On: b1	Dry Off: 91	Cool On: b2	Cool Off: 92	Fan On: b3	Fan Off: 93	Heat On: b4	Heat Off: 94	First Nibble is 0 a	fter start-up and a a	fter system reset
3	00													
	Set Temp	18 Degrees: 48	19 Degrees: 4a	20 Degrees: 4c	21 Degrees: 4e	22 Degrees: 50	23 Degrees: 52	24 Degrees: 54	25 Degrees: 56	26 Degrees: 58	27 Degrees: 5a	28 Degrees: 5c	29 Degrees: 5e	30 Degrees: 60
	Fan	Lo: f0	Med: f1	Hi: f2	First Nibble is e a	fter system reset								
	ff													
	ff													
	Clean Filter Reset	Reset Clean Filter: f1	Else: f0											
	3f													
0	ff													
1	ff													
2	ff													
13	ff													
14	ff													
15	Modulo 256 Checksum													

Packet 2														
Byte	Function	Data												
0	Header	80												
1	Header	8c												
2	Mode	Auto On: b0	Auto Off: 90	Dry On: b1	Dry Off: 91	Cool On: b2	Cool Off: 92	Fan On: b3	Fan Off: 93	Heat On: b4	Heat Off: 94	First Nibble is 0 at	ter start-up and a af	ter system reset
3	00													
4	Set Temp	18 Degrees: 48	19 Degrees: 4a	20 Degrees: 4c	21 Degrees: 4e	22 Degrees: 50	23 Degrees: 52	24 Degrees: 54	25 Degrees: 56	26 Degrees: 58	27 Degrees: 5a	28 Degrees: 5c	29 Degrees: 5e	30 Degrees: 60
5	Fan	Lo: f0	Med: f1	Hi: f2	First Nibble is e af	ter system reset								
6	Actual Temp	Varies between 8e and a	4	Not decoded (not necessa	ary to control the syst	tem)								
7	00													
8	e0	Maybe a malfunction ind		Not decoded										
9	Heating Warmup/Clean filter Alter	Not in Warmup: f8 or fa	Warmup: f9 or fb	Clean Filter Alert: fa or fb	Filter OK: f8 or f9									
10	ff													
11	ff													
12	Compressor State	Off: e0	On: e2											
13	ff													
14	ff													
15	Modulo 256 Checksum													

Packet 3														
Byte	Function	Data												
0	Sequence Number MSB	00 to 32												
1	Sequence Number LSB	8f to bf												
2	Mode	Auto On: b0	Auto Off: 90	Dry On: b1	Dry Off: 91	Cool On: b2	Cool Off: 92	Fan On: b3	Fan Off: 93	Heat On: b4	Heat Off: 94	First Nibble is 0 a	fter start-up and a af	ter system reset
3	00													
4	Set Temp	18 Degrees: 48	19 Degrees: 4a	20 Degrees: 4c	21 Degrees: 4e	22 Degrees: 50	23 Degrees: 52	24 Degrees: 54	25 Degrees: 56	26 Degrees: 58	27 Degrees: 5a	28 Degrees: 5b	29 Degrees: 5e	30 Degrees: 60
5	Fan	Lo: f0	Med: f1	Hi: f2	First Nibble is e at	fter system reset								
6	ff													
7	00													
8	f0													
9	3f													
10	ff													
11	ff													
12	ff													
13	ff													
14	ff													
15	Modulo 256 Checksum													