

1、Basic format of Data Frame:

No.	1	2	3	4	5	6						7	8
Symbol	SOI	LEN	ADR	CID1	CID2	INFO						CHK	EOI
Length (Bytes)	1	1	3	1	1	N						1	1
Eg. 1	AA	XX	XX.XX.XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	10

(1) SOI (Start of Information): Start mark bit, 1 byte, fixed as AAH in this protocol.

(2) LEN (Length): INFO length, 1 byte, range 0~128, if LEN = 128, the actual length of packet 128+9 (SOI+LEN+ADR+CID1+CID2+CHK+EOI) = 137.

(3) ADR (Address): device logical address, 3 bytes, range 1~127, 255 is the broadcast address.

(4) CID1 (Command ID 1): Main command code, 1 byte, range 0 ~ 255

(5) CID2 (Command ID 2): Sub command code, 1 byte, range 0 ~ 255

(6) INFO (Information): content of data, 0 ~ 128 bytes, variable length

(7) CHK (Check Summation): Summation check bit, 1 bytes, except SOI, EOI, other CHKSUM bytes of the entire data frame (from the LEN to INFO) should accumulated ASCII code, the remainder of final modulo 256 used for check.

(8) EOI (End of Information): Ending mark bit, fixed as 10H

CMD(Command) Data Frame

ADR indicates the address of the devices which receive the commands

CID1, its data range is 1~127

CID2, its data range is 1~127

ACK(Acknowledgement) Data Frame

ADR indicates the address of the devices which send out the responses.

CID1, its data range is 128~255

2、Search device、set(change)device logic address、set device name:

NO.	Specification	CMD								ACK							
		ADR	CID 1	CID 2	INFO				ADR	CID1	CID2	INFO				P1	P2
					P1	P2	P3	P4				P1	P2	P3	P4		
1	Get device information (Search device)	FF.FF.FF xx.xx.xx	01	01	(0)	(0)	(0)	(0)	xx.xx.xx	F1	01	Device ID(1)	Sub ID (1)	MAC (6)			

6	Set device logic address	xx.xx.xx	01	06	MAC (6)	ADR (1)	Device ID(1)	Sub ID(1)	xx.xx.xx	F1	06	Device ID(1)	Sub ID (1)	MAC (6)		(0)	
7	Set device name	xx.xx.xx	01	07	Name (N)	(0)	(0)	(0)	xx.xx.xx	F1	07	Name (N)	(0)	(0)	(0)		

3、Open doors:

1	Enter_dir.	FF.FF.FF xx.xx.xx	0B	0A	Times (1)				xx.xx.xx	FB	0A		(0)	(0)	(0)		
2	Exit_dir.	FF.FF.FF xx.xx.xx	0B	0B	Times (1)				xx.xx.xx	FB	0B		(0)	(0)	(0)		

4、Note:

Don't try to operate others undefined instruction.