KC868-Hx Smart Controller Communication Protocol V20.0.1								
NUMBER	FUNCTION	SEND		FEEDBACK	DESCRIPTION			
1	Turn ON Or Turn OFF Relay x	RELAY-SET-255, x, 1	(x is the number of Relay)	RELAY-SET-255, x, <mark>1</mark> , OK RELAY-SET-255, x, <mark>1</mark> , ERROR	Turn ON the Relay x successed Turn ON the Relay x failed			
		RELAY-SET-255, x, <mark>0</mark>		RELAY-SET-255, x, <mark>0</mark> , 0K RELAY-SET-255, x, <mark>0</mark> , ERROR	Turn OFF the Relay x successed Turn OFF the Relay x failed			
EXAMPLE		SEND		FEEDBACK				
	Turn ON Relay 2	RELAY–SET–255, <mark>2</mark> , 1	(x is Relay 2)	RELAY-SET-255, 2, 1, 0K	Turn ON Relay 2 sucessed			
	Turn OFF Relay 2	RELAY-SET-255, 2, 0		RELAY-SET-255, 2, 0, 0K	Turn OFF Relay 2 successed			
2	Query the status of Relay y	of Relay x RELAY-READ-255, x	(x is the number of	RELAY-READ-255, x, 1, OK	The status of Relay x is ON			
	query the status of heray A		Relay)	RELAY-READ-255, x, <mark>0</mark> , OK	The status of Relay x is OFF			
EXAMPLE		SEND		FEEDBACK				
	Query the status of Relay 7	RELAY-READ-255, 7	(x is Relay 7)	RELAY-READ-255, 7, 0, OK	The status of Relay 7 is OFF			
3	Query the status of Inputs	RELAY-GET_INPUT-255		RELAY-GET_INPUT-255, x, OK	x is a Decimal Number The Maximum is 255(Binary is 1111111)			
EXAMPLE		SEND		FEEDBACK				
	Query the status of Inputs	RELAY-GET_INPUT-255		RELAY-GET_INPUT-255, <mark>254</mark> , OK	254:11111110 Means input 1 was triggered			
4	Turn ON Or Turn OFF Multiplex Relays(32 bit) RELAY-SET_ALL-255, D3, D2, D1, D0	DELAV CET ALL OFF DO DO DI DO	VCOGO U20 Comica	RELAY-SET_ALL-255, D3, D2, D1, D0, OK	Control successed			
		KC000-1152 Series	RELAY-SET_ALL-255, D3, D2, D1, D0, ERROR	Control failed				
		SEND		FEEDBACK				
EXAMPLE	Turn ON Relay 30,18,10,1 and Turn OFF the rest	RELAY-SET_ALL-255, 32, 2, 2, 1	KC868-H32 Series	RELAY-SET_ALL-255, 32, 2, 2, 1, 0K	D3 (32) D2 (2) D1 (2) D0 (1) 00100000 0000010 0000010 00000001			
	Turn OFF Relay 32,20,12,2 and Turn ON the rest	RELAY-SET_ALL-255, 127, 247, 247, 253		RELAY-SET_ALL-255, 127, 247, 247, 253, OK	D3 (127) D2 (247) D1 (247) D0 (253) 011111111 11110111 11110111 1111101			
5	Turn ON Or Turn OFF	RELAV-SET ALL-255 D1 D0	KC868-H16 Series	RELAY-SET_ALL-255, D1, D0, OK	Control successed			
	Multiplex Relays(16 bit)	RELAT SET_ALL 235, D1, D0		RELAY-SET_ALL-255, D1, D0, ERROR	Control failed			
EXAMPLE		SEND		FEEDBACK				
	Turn ON Relay 15,13,6,1 and Turn OFF the rest	RELAY–SET_ALL–255, 80, 33	KC868-H16 Series	RELAY-SET_ALL-255, 80, 33, 0K	D1 (80) D0 (33) 01010000 00100001			
	Turn OFF Relay 14,10,4,2 and Turn ON the rest	RELAY–SET_ALL–255, 221, 245		RELAY-SET_ALL-255, 221, 245, 0K	D1 (221) D0 (245) 11011101 11110101			

6	Turn ON Or Turn OFF	RELAY-SET_ALL-255, DO	KC868-H8/H4/H2Series	RELAY-SET_ALL-255, DO, OK	Control successed				
	Multiplex Relays(8 bit)			RELAY-SET_ALL-255, DO, ERROR	Control failed				
EXAMPLE		SEND		FEEDBACK					
	Turn ON Relay 2 and Turn OFF the rest	RELAY–SET_ALL–255, 2		RELAY-SET_ALL-255, 2, 0K	D0 (2) 00000010				
	Turn OFF Relay 5 and Turn ON the rest	RELAY–SET_ALL–255, 239		RELAY-SET_ALL-255, 239, OK	D0 (239) 11101111				
	D3 D2 D1 D0 is a Decimal number; When convert to Binary, 1 means the Relay is ON, 0 means the Relay is OFF; D3 from Relay32 to Relay26; D2 from Relay25 to Relay17; D1 from Relay16 to Relay9; D0 from Relay8 to Relay1;								
7	Read all Relays's status	RELAY–STATE–255	KC868-H32 Series	RELAY-STATE-255, D3, D2, D1, D0, OK	Read successed				
				RELAY-STATE-255, D3, D2, D1, D0, ERROR	Read failed				
			KC868-H16Series	RELAY-STATE-255, D1, D0, OK	Read successed				
				RELAY-STATE-255, D1, D0, ERROR	Read failed				
			KC868-H8/H4/H2Series	RELAY-STATE-255, D0, OK	Read successed				
				RELAY-STATE-255, DO, ERROR	Read failed				
8	Turn ON all Relays	RELAY-AON-255, 1, 1		RELAY-AON-255, 1, 1, 0K	Turn ON all Relays successed				
9	Turn OFF all Relays	RELAY-AOF-255, 1, 1		RELAY-AOF-255, 1, 1, 0K	Turn OFF all Relays successed				
10	Reversal Control Relay x	RELAY-KEY-255, x, 1	(x is the number of Relay)	RELAY-KEY-255, x, 1, OK	Reversal Control Relay x successed				
		SEND		FEEDBACK					
EXAMPLE	Reversal Control Relay 4	RELAY-KEY-255, 4, 1	(x is relay 4)	RELAY-KEY-255, 4, 1, 0K	Reversal Control Relay 4 successed				