

REL8CHRS232

RS232 8CH Relay Controller



Product Features

Hardware Features

- DB9 RS232 Communications Port
- 12V, 1.5A Screw Cage Power Terminal
- 8 Relay Channels
- PWR Flashing Blue LED Indicator
- RELAY Solid Red LED Indicator
- Relay Capacity:
 - AC250V 10A / DC30V 10A
- DIN Rail Clips
- Wall Mount Screw Sockets

Software Features

- Hex Commands to switch Relays
- Command Acknowledgement
- Serial Configuration: 9600, 8, N, 1

Hex Command Format

1. Each relay is represented by 1bit
2. The 8bits are then converted to a Hex value

Description	Hex Value	8	7	6	5	4	3	2	1
Relay 1 Close	01	0	0	0	0	0	0	0	1
Relay 2 Close	02	0	0	0	0	0	0	1	0
Relay 3 Close	04	0	0	0	0	0	1	0	0
Relay 4 Close	08	0	0	0	0	1	0	0	0
Relay 5 Close	10	0	0	0	1	0	0	0	0
Relay 6 Close	20	0	0	1	0	0	0	0	0
Relay 7 Close	40	0	1	0	0	0	0	0	0
Relay 8 Close	80	1	0	0	0	0	0	0	0
Relay 1+2 Close	03	0	0	0	0	0	0	1	1
Connect All	FF	1	1	1	1	1	1	1	1
Disconnect All	00	0	0	0	0	0	0	0	0

3. The Hex value is used to close or open relays
4. The Checksum is calculated by adding the 7 bytes and using the end 2 digits

Description	Data	Address	Function Code	Data Byte 1	Data Byte 2	Data Byte 3	Data Byte 4	Checksum (Last 2 digits of Sum)
Relay 1 Close	55	01	13	00	00	00	01	6A
Relay 2 Close	55	01	13	00	00	00	02	6B
Relay 3 Close	55	01	13	00	00	00	04	6D
Relay 4 Close	55	01	13	00	00	00	08	71
Relay 5 Close	55	01	13	00	00	00	10	79
Relay 6 Close	55	01	13	00	00	00	20	89
Relay 7 Close	55	01	13	00	00	00	40	A9
Relay 8 Close	55	01	13	00	00	00	80	E9
Relay 1+2 Close	55	01	13	00	00	00	03	6C
Connect All	55	01	13	00	00	00	FF	68
Disconnect All	55	01	13	00	00	00	0	69

Example

```
2017/11/08 13:36:08.853 [TX] - 55 01 13 00 00 00 01 6A
2017/11/08 13:36:08.863 [RX] - 22 01 00 00 00 00 01 24
```

All Relay Close

```
2017/11/08 13:38:14.874 [TX] - 55 01 13 00 00 00 FF 68
2017/11/08 13:38:14.884 [RX] - 22 01 00 00 00 00 FF 22
```

All Relay Open

```
2017/11/08 13:38:50.074 [TX] - 55 01 13 00 00 00 00 69
2017/11/08 13:38:50.084 [RX] - 22 01 00 00 00 00 00 23
```

Relay 1+2 Close

```
2017/11/08 13:39:08.877 [TX] - 55 01 13 00 00 00 03 6C
2017/11/08 13:39:08.887 [RX] - 22 01 00 00 00 00 03 26
```

