CR-HOST8R Tesira Command Sheet

For Tesira Command String blocks · Version 1.0.3

Every command the CR-HOST8R takes over the network, as fixed strings for Tesira Command String blocks. The unit is controlled on its own control port (TCP 6971); no other KanexPro software is needed. The same strings, with their bytes, are in `KanexPro-CR-HOST8R-Tesira-Command-Sheet-1.0.3.csv` for copying.

> **Before you start —** the Tesira server must reach the CR-HOST8R on TCP port 6971. Give the unit a fixed IP address (or a DHCP reservation).

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1. CONNECTION

HOW THE UNIT IS CONTROLLED	
Transport	TCP, port 6971 (the unit's control port)
Line ending	CR LF (hex `0D 0A`), after every string
Pacing	One string at a time. The unit answers within about 1.5 s; wait for the answer before the next string.
A refused string	The unit answers with an error line.

2. USING THE STRINGS

1. Point the Command String block at the unit's IP address, TCP port 6971.
2. Add one command per row of section 3: its string, then the line ending (hex `0D 0A`).
3. Wire each command to the control that should send it. The Bytes column is the whole string as it goes on the wire, to compare with a network capture.

Settings that only the unit's own web page has (its network, logins and firmware) stay on that page.

3. COMMANDS

32 strings.

#	Command	String	Bytes (hex, with the line ending)
1	**Relays: Relay 1: On on**	`PR1|1`	`50 52 31 7C 31 0D 0A`
2	**Relays: Relay 1: On off**	`PR1|0`	`50 52 31 7C 30 0D 0A`
3	**Relays: Relay 2: On on**	`PR2|1`	`50 52 32 7C 31 0D 0A`
4	**Relays: Relay 2: On off**	`PR2|0`	`50 52 32 7C 30 0D 0A`
5	**Relays: Relay 3: On on**	`PR3|1`	`50 52 33 7C 31 0D 0A`
6	**Relays: Relay 3: On off**	`PR3|0`	`50 52 33 7C 30 0D 0A`
7	**Relays: Relay 4: On on**	`PR4|1`	`50 52 34 7C 31 0D 0A`
8	**Relays: Relay 4: On off**	`PR4|0`	`50 52 34 7C 30 0D 0A`
9	**Relays: Relay 5: On on**	`PR5|1`	`50 52 35 7C 31 0D 0A`
10	**Relays: Relay 5: On off**	`PR5|0`	`50 52 35 7C 30 0D 0A`
11	**Relays: Relay 6: On on**	`PR6|1`	`50 52 36 7C 31 0D 0A`

12	Relays: Relay 6: On off	PR6|0	50 52 36 7C 30 0D 0A
13	Relays: Relay 7: On on	PR7|1	50 52 37 7C 31 0D 0A
14	Relays: Relay 7: On off	PR7|0	50 52 37 7C 30 0D 0A
15	Relays: Relay 8: On on	PR8|1	50 52 38 7C 31 0D 0A
16	Relays: Relay 8: On off	PR8|0	50 52 38 7C 30 0D 0A
17	Digital outputs: Output 1: High on	PO1|1	50 4F 31 7C 31 0D 0A
18	Digital outputs: Output 1: High off	PO1|0	50 4F 31 7C 30 0D 0A
19	Digital outputs: Output 2: High on	PO2|1	50 4F 32 7C 31 0D 0A
20	Digital outputs: Output 2: High off	PO2|0	50 4F 32 7C 30 0D 0A
21	Digital outputs: Output 3: High on	PO3|1	50 4F 33 7C 31 0D 0A
22	Digital outputs: Output 3: High off	PO3|0	50 4F 33 7C 30 0D 0A
23	Digital outputs: Output 4: High on	PO4|1	50 4F 34 7C 31 0D 0A
24	Digital outputs: Output 4: High off	PO4|0	50 4F 34 7C 30 0D 0A
25	Digital outputs: Output 5: High on	PO5|1	50 4F 35 7C 31 0D 0A
26	Digital outputs: Output 5: High off	PO5|0	50 4F 35 7C 30 0D 0A
27	Digital outputs: Output 6: High on	PO6|1	50 4F 36 7C 31 0D 0A
28	Digital outputs: Output 6: High off	PO6|0	50 4F 36 7C 30 0D 0A
29	Digital outputs: Output 7: High on	PO7|1	50 4F 37 7C 31 0D 0A
30	Digital outputs: Output 7: High off	PO7|0	50 4F 37 7C 30 0D 0A
31	Digital outputs: Output 8: High on	PO8|1	50 4F 38 7C 31 0D 0A
32	Digital outputs: Output 8: High off	PO8|0	50 4F 38 7C 30 0D 0A

4. READING THE UNIT BACK

This unit reports nothing back.

5. TROUBLESHOOTING

Nothing happens.
Check the unit's IP address and that TCP 6971 is open between the Tesira server and the unit (same network or VLAN, or routed; no firewall in between). Check the line ending is sent after each string.

The unit answers with an error.
The string or its value is not one it takes, or the unit is in standby: turn it on first.