

BZR-22

S-BUS Communication log

BZR-22 Overview

This document is the explanation of BZR-22. This is S-BUS Log software of Windows GUI. BZR-22 connects to TCP/IP 8001 port (Default) of HKSP-R80.

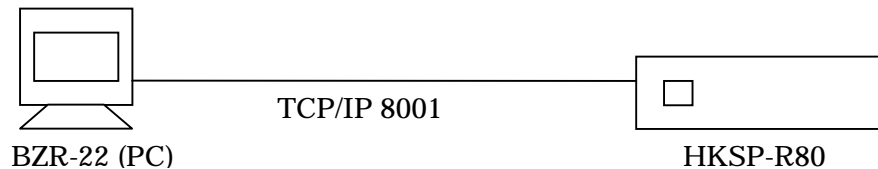


Fig 1

BZR-22 displays S-BUS commands output from Ethernet of Primary station (HKSP-R80). This has some functions below.

- Auto making S-BUS Log files
- Real-time display of S-BUS commands
- Detailed Display of S-BUS Log files
- Filter function (Take, System, Fault, Others)
- Cross-points display of Take commands

BZR-22 Help

Window configuration

Main window

When you start up this software, the main window opens. The main window of BZR-22 is the following figure.

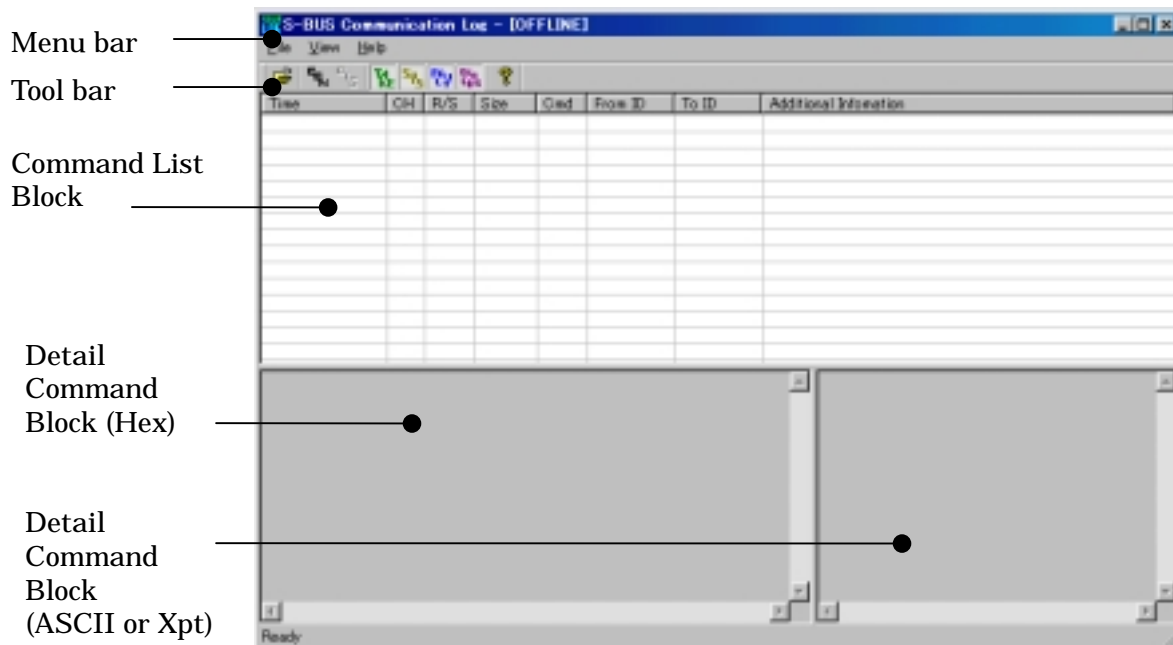


Fig 2

Command list block

The upper block of the main window is called the command lists block. This block displays one S-BUS command on one line. This list displays time, channel, receive or send, size of data, command code (1byte), station ID of source, station ID of destination and brief account of a S-BUS command.

Each command is displayed as 4 kinds of colors (green, yellow, blue and purple). The green commands express the take commands (The command code is 01, 81, 09 and 89). The yellow commands express the system commands. The system commands aren't S-BUS commands. These are displayed when BZR-22 is connected to HKSP-R80 or when BZR-22 is disconnected with R80 and R80 is turn off. The blue commands express the fault commands. The fault commands are the error message commands. The purple commands are other commands.

Time	CH	R/S	Size	Cmd	From ID	To ID	Additional Information
2013:00:00	00	R	7	81	1	255	Crosspoint data request.
2013:00:00	00	S	7	81	1	255	Crosspoint data request.
2013:00:00	00	R	7	81	1	255	Crosspoint data request.
2013:00:00	00	S	7	81	1	255	Crosspoint data request.
2013:00:00	00	S	7	89	1	255	Switching execution result number.
2013:00:00	00	R	7	81	1	255	Crosspoint data request.
2013:00:00	00	R	7	81	1	255	Crosspoint data request.
2013:00:00	00	R	7	01	12	1	Crosspoint data request.
2012:00:00	00	S	131	89	1	255	Switching execution result number.
2012:00:00	00	S	227	80	1	255	Switching execution result number.
2012:00:00	00	S	59	80	1	255	Level 2 message.
2012:00:00	00	S	227	80	1	255	Switching execution result number.
2012:00:00	00	R	59	00	12	1	Level 2 message.
2012:00:00	00	S	227	89	1	255	Switching execution result number.
2012:00:00	00	S	227	89	1	255	Switching execution result number.
2012:00:00	00	S	3	8F	1	255	Reset
Connect IPC Time 2011040							

Fig. Command list block

Detailed command block (Hex)

The left block of the lower area of the main window is called the detailed command block (Hex). This block displays S-BUS command itself when you selected a one line from the command list block. But the binary data sequence of the S-BUS command is changed into the ASCII character sequence.

	+0	+1	+2	+3	+4	+5	+6	+7	-	+8	+9	+A	+B	+C	+D	+E	+F
00	FF	8C	01	97	53	54	41	52	-	54	45	44	20	42	59	20	42
10	4B	53	2D	52	33	32	34	32	-	20	56	65	72	31	2E	30	35
20	78	32	20	49	4E	20	53	54	-	41	54	49	4F	4E	20	31	32
30	20	20	43	3D	38	36	41	34	-	0D	0A	00					

Fig. Detailed command block (Hex)

Detailed command block (ASCII or Xpt)

The right block of the lower area of the main window is called the detail command block (ASCII or Xpt). This block displays as 2 kinds of methods. The Xpt data is displayed if S-BUS command code is "81", "01", "89" or "09". If it is other code, ASCII character is displayed.

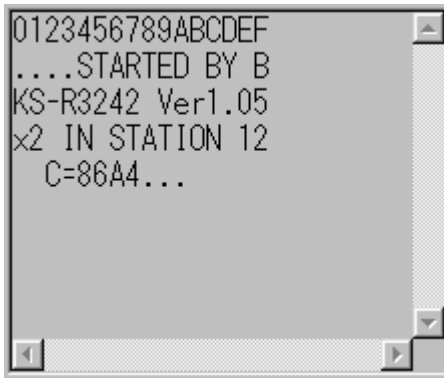


Fig. Detailed command block (ASCII)

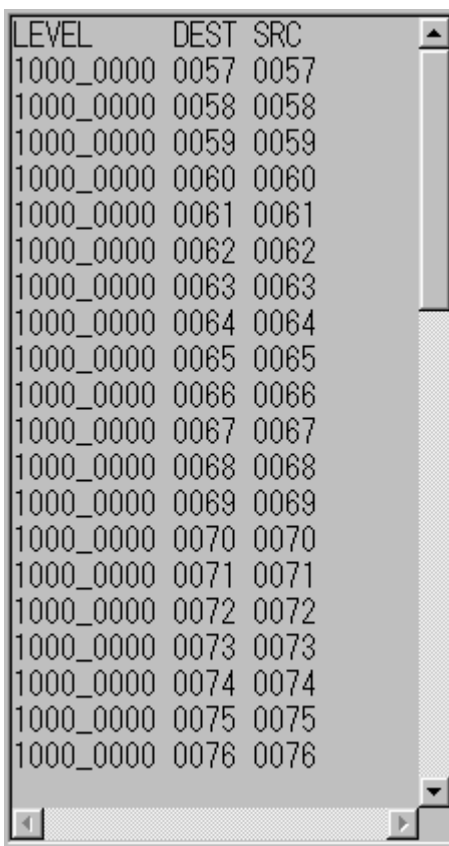


Fig. Detailed command block (Xpt)

Connecting to HKSP-R80

For connecting to HKSP-R80, you have to set IP address of R80 etc.

Procedure

1. Select connect... from the File menu.
The connection setup dialog box opens.

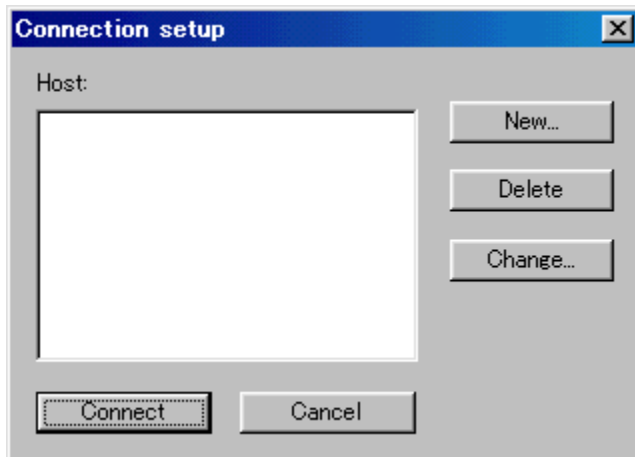


Fig. Connection setup dialog

Host

The original names of HKSP-R80 in only BZR-22 are displayed in the list box.

New... button

This button is pushed when the new host is added.

Delete button

This button is pushed when the selected host in the list box is deleted.

Change... button

This button is pushed when the selected host setting in the list box is changed.

Connect button

This button is pushed when BZR-22 is connected to the selected host in the list box

Cancel button

This button is pushed when this dialog is canceled.

2. Pushing New... button

The New dialog box opens. You input Name, IP address, Port and Directory.

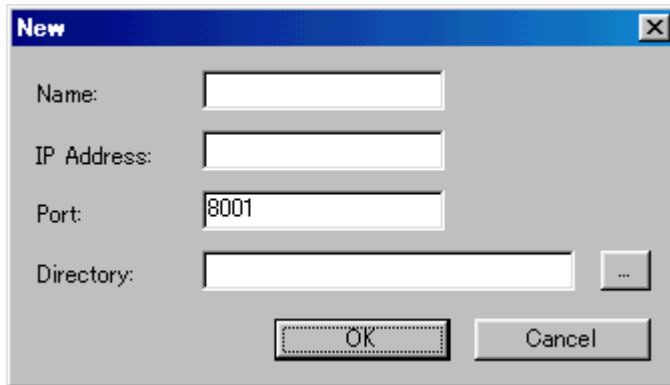


Fig. New dialog

Name

The original name of R80 in only BZR-22 is inputted.

This name is displayed in the list box of the connection setup dialog box.

IP Address

The IP address of R80 is inputted. (ex: 192.168.2.1)

Port

The IP port of R80 is inputted. (Default: 8001)

Directory

The directory path saving S-BUS log files is inputted.

3. Pushing the OK button. And for connecting to R80, you push the Connect button of the connection setup dialog box. If BZR-22 connects to the host correctly, this will get the S-BUS Log.

4. For the end of getting the S-BUS log, you push Disconnect from the File menu. When BZR-22 is connected to the same host after 2 times, you can select the host in the list box of the connection setup dialog box.

Filter function

BZR-22 has the filter function of displaying S-BUS log command. BZR-22 judges 4 kinds of S-BUS command (Take, System, Fault and Others). If you check/uncheck Take, System, Fault and Others from the View menu, BZR-22 will display/un-display each S-BUS command.

Auto making S-BUS Log files

If BZR-22 is connected to HKSP-R80, it makes new S-BUS log file automatically in the specified directory. S-BUS log files are named to "Name_XXXX.log". "Name" is specified in the Name text box of New dialog box. "XXXX" is the numbers from 0001 to 9999. The "XXXX" of the log file name is increment from 0001, if the new log file is made.

If the number of S-BUS commands becomes over 15000, BZR-22 makes new log file. And if the number of the S-BUS log file is over 9999, the file of "0001" is overwritten.