HSQ MiserNet protocol

Connector Configuration Parameters

DCD Delay (msec)

Enter a delay time, in milliseconds that the Omnii-Comm will wait before accepting any characters on its receive port. This timer is started when DCD is detected.

RTS ON DelayX10ms

Enter a number from 0 to 255 (0 to 2.55 seconds) to delay sending a message after turning on Request To Send (RTS). Commonly used with modem communication to allow additional time for the modems to synchronize.

RTS OFF DelayX10ms

Enter a number from 0 to 255 (0 to 2.55 seconds) to keep RTS on after a message has been sent. Commonly used to keep a radio on for a short period of time at the end of a message.

Handshake Option

If Full Handshake is selected the Omnii-Comm will assert RTS and wait for CTS before sending a message. RTS will be turned off after the message has been sent.If Constant Carrier is selected the Omnii-Comm will assert RTS when it sends its first message and leave it asserted. It will wait for CTS before sending.If Ignore CTS is selected, RTS will be asserted before sending a message and removed at the end of the message. The CTS input will be ignored.If No Handshake is selected, RTS will be asserted when the Omnii-Comm sends its first message. RTS will not be turned off at the end of the message. The CTS input will be ignored.If Activity Monitor is selected, the Omnii-Comm will check the DCD input before sending a message. If DCD is ON, the Omnii-Comm will delay sending the message.

Retry Count

The number of times a message will be retried before an error is reported

Option Bit Parameters

Use Radio Key

If checked, Bit 0 in a register specified by the "Radio Key Address" on the Header configuration screen will be turned ON before a message is sent and turned OFF after the message has been completed.

Use DCD

Check this box if the Omnii-Comm should wait for DCD before enabling the receiver.

Read All until init

If checked send Read All commands until Data Base is initialized.

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Protocol Extension Table Parameters

The Protocol extension table is used to define additional parameters required for HSQ operation. Click on the box to enable the Protocol Extension Table. Click on the button to bring up the specific options as detailed below.

Return Data Data Type and Offset

Command response data will be stored at the Data Type and Starting Offset specified in these two words. The Command (high byte) and RTU ID (low byte) will be placed in the first word and any returned data in succeeding words.

Packet*	2nd word	3rd word	4th word
COS End of init. report	Status	xx	
COS RTU/MUX status	MUXID+Status	xx	xx [MUXID=hi byte]
COS Communications Err.	MUXID+Error	xx	xx [MUXID=hi byte]
Command reject	point number	Rej.lev./reason	xx
Read AI, DI, DV	point number	value	status
Select DV, write AO	point number	xx	xx
Disable RTU, Enable RTU, Force RTU state report	00	xx	xx
Start DV. Stop DV,**	point number	ctl.owner	xx
Read AO	point number	value	xx
Raise DV, Lower DV	point number	pulse duration	xx
Read RTU status	Status	xx	xx

*Some commands do not return data - Initialize RTU, Read all, and Set Clockand calendar.
**start/stop mayRelease DV not return ctl.owner store 00

COS Data Type and Offset

Other COS packets (end of initial Report, status reports, and communications fail reports) that come back with either a poll or a command response message will be returned to a separate COS-return-data area, specified in these two bytes in the port extension table.

Poll Table Read Parameters

RTU Address

The Address of the PLC that will respond to this Read request.Valid addresses are from 0 to 255.

Poll Table Write and Error Parameters

INVALID SELECTION. Can not Write to HSQ MISERnet port. Use COMMANDS to send data to RTU.

Note: System Error Protocol Definitions are the same as Poll Table Write and Error Parameters

Database Extension Table Parameters

Index	Name	Size:Max Length
0	Type 00	2:256
1	Type 01	2:256
2	Type 02	2:256
3	Type 03	2:256
4	Type 04	2:256
5	Type 05	2:256
6	Type 06	2:256
7	Type 07	2:32
8	Type 08	2:32
9	Type 09	2:32
10	Type 10	2:64
11	Type 11	2:32
12	Type 12	2:32
13	Type 13	2:32
14	Type 14	2:32
15	Type 15	2:32
16	Type 16	2:32
17	Type 17	2:32
18	Type 18	2:32
19	Type 19	2:32
20	Type 20	2:256
21	Type 21	2:256