HELP FILE DOCUMENT

Manufacturer: Fohhn Audio
Model: Fohhn Net Protocol
Device Type: DSP

CONTACT SUPPORT: (please fill out carefully)

COMPANY NAME:	Fohhn Audio AG
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NOTES:	

GENERAL INFORMATION

SIMPLWINDOWS NAME:	FohhnNet_Device_1.1.0
CATEGORY:	Fohhn Audio
VERSION:	1.1.0
SUMMARY:	This module integrates with any Fohhn device that uses the Fohhn-Net protocol over UDP or RS485.
GENERAL NOTES:	It is not recommended to use Fohhn Audio Soft at the same time as the processor is controlling the device. At the time of writing this module it has been noted that we don't get some responses while Fohhn Audio Soft is connected to the device. This has been noted when using Fohhn Audio Soft over network.
CRESTRON HARDWARE REQUIRED:	Crestron 3-Series or 4-Series processor.
VENDOR FIRMWARE:	1.0.2

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CONTROL:

Signal/Function Name	*D,S,A*	*Digital, Serial, Analog signal property definition.*
Connect	D	Starts communication with the device. This has to be used for all connection types
Disconnect	D	Stops communication with the device
Poll_Routing	D	This polls the device for routing information. This is done automatically when the device starts responding, but after that you will have to do it yourself if you need it. That's because polling for routing requires a large amount of commands to be sent. Polling this affects the following signals: - Output_[X]_Input_[Y]_Current_Gain - Output_[X]_Input_[Y]_Mute_Is_On - Output_[X]_Input_[Y]_Mute_Is_Off
Recall_Preset	A	Recalls a preset in the device. This takes about 1.5 seconds to complete. Range: 1 to 100
Power_On	D	Takes the device out of standby
Power_Off	D	Puts the device in standby
Output_[X]_Volume	A	Controls the volume of output X in decibels. The value should be dB * 10. So -45.5 dB is sent as -455 Range: -800 to 120
Output_[X]_Mute_On	D	Mutes the audio on output X
Output_[X]_Mute_Off	D	Unmutes the audio on output X
Output_[X]_Mute_Toggle	D	Toggles the mute state on output X
Output_[X]_Input_[Y]_Gain	A	Controls the gain of input Y sent to output X. The value should be dB * 10. So -45.5 dB is sent as -455 Range: -800 to 120
Output_[X]_Input_[Y]_Mute_On	D	Mutes input Y on output X
Output_[X]_Input_[Y]_Mute_Off	D	Unmutes input Y on output X
Output_[X]_Input_[Y]_Mute_Toggle	D	Toggles the mute state of input Y on output X
Host	S	The IP / FQDN / Hostname of the device when using UDP. If you want to set this during compile-time, you can use parameter Host instead.

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Port	A	The port to use when using UDP. If you want to set this during runtime, you can use analog input Port instead.
Serial_Rx$	S	Commands received from the serial port when using RS485. Connect this to the Rx$ serial output on a Com port.
Custom_Command	S	Send your own custom commands here, and get the response on serial output Custom_Command_Response
Log_Level	A	Used for debugging. This controls how much information is printed to the console. If this module is running on a server-based processor, messages will be written to ErrorLog instead. Available values: 0. Debug 1. Info 2. Errors So if you want all possible logging written to the console, set this value to 0. Default: 2

FEEDBACK:

Responding	D	The device is responding to requests.
Power_Is_On	D	The device is out of standby
Power_Is_Off	D	The device is in standby
Device_Alias	S	The alias set on the device. This will be empty if no custom alias is set.
Firmware_Version	S	The firmware version of the device. Example: 3.2.2
Temperature	A	The temperature reported by the device in Celsius. This output will report the temperature * 10, so a temperature of 33.5 is reported as 335
Status_Bit_[X]	D	This contains certain feedback for certain devices. Check Appendix A at the end of this manual for information on what is reported for your specific device.
Output_[X]_Current_Volume	A	Reports the volume of output X in decibels. The reported value is dB * 10. So -45.5 dB is reported as -455 Range: -800 to 120
Output_[X]_Mute_Is_On	D	Audio of output X is muted
Output_[X]_Mute_Is_Off	D	Audio of output X is not muted
Output_[X]_Input_[Y]_Gain	A	Reports the gain of input Y sent to output X. The reported value is dB * 10. So -45.5 dB is reported as -455

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		Range: -800 to 120
Output_[X]_Input_[Y]_Mute_Is_On	D	Audio of input Y on output X is muted
Output_[X]_Input_[Y]_Mute_Is_Off	D	Audio of input Y on output X is not muted
Serial_Tx$	S	Commands sent to the serial port when using RS485. Connect this to Tx$ serial input on a Com-port.
Custom_Command_Response	S	Send your own custom commands on Custom_Command, and get the response here

PARAMETERS:

Connection Type		Defines which communication type should be used when communicating with the device. Available types: - UDP – IP - Serial – RS485
Device Id		The Device Id of the device to control
Host		The IP / FQDN / Hostname of the device when using UDP. If you want to set this during runtime, you can use serial input Host instead.
Port		The port to use when using UDP. If you want to set this during runtime, you can use analog input Port instead. Default: 2101d
Number of Inputs		The number of inputs on the device that you will be connecting to.
Number of Outputs		The number of outputs on the device that you will be connecting to.
Poll Rate		The time between polls sent by the module. It's recommended to not set this lower than 5s. Default: 5s

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APPENDIX A:

DLI-130 DLI-230 DLI-330 DLI-430		Status_Bit_0 = Fault, Status_Bit_1 = Audio(AES), Status_Bit_2 = Pilotton, Status_Bit_3 = Not In Use
FV-100 FV-200		Status_Bit_0 = Fault, Status_Bit_1 = Audio(AES), Status_Bit_2 = Not In Use, Status_Bit_3 = Not In Use
LFI-120 LFI-220 LFI-350 LFI-450		Status_Bit_0 = Fault, Status_Bit_1 =Pilotton , Status_Bit_2 = Not In Use, Status_Bit_3 = Not In Use
FMI-100 FMI-110 FMI-400		Status_Bit_0 = Fault, Status_Bit_1 = Pilotton, Status_Bit_2 = Not In Use, Status_Bit_3 = Not In Use
DI-2.2000 DI-2.4000		Status_Bit_0 = Protect 1, Status_Bit_1 = Protect 2, Status_Bit_2 = Protect 3, Status_Bit_3 = Protect 4
DI-4.1000 DI-4.2000		Status_Bit_0 = Fault, Status_Bit_1 = Audio(AES), Status_Bit_2 = Pilotton, Status_Bit_3 = Not In Use
DFM-100 DFM-110 DFM-400		The time between polls sent by the module. It's recommended to not set this lower than 5s. Default: 5s
MA-4.100 MA-4.600		Status_Bit_0 = Protect 1, Status_Bit_1 = Protect 2, Status_Bit_2 = Protect 3, Status_Bit_3 = Protect 4

TESTING:

PS USED FOR TESTING:	CP 4 v2.8006.00110
SIMPL WINDOWS USED FOR TESTING:	4.3000.01
DEVICE DB USED FOR TESTING:	200.42000.001.00
CRES DB USED FOR TESTING:	228.2500.001.00
SYMBOL LIBRARY USED FOR TESTING:	1227
SAMPLE PROGRAM:	FohhnNet Demo CP4 IP.smw FohhnNet Demo CP4 RS485.smw

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REVISION HISTORY:	1.1.0 - Initial Release

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