



Manufacturer: Williams Sound
 Model: PLA-DL210
 Device Type: Hearing Assist – Digital Loop Amplifier

CONTACT SUPPORT:

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NOTES:	

GENERAL INFORMATION

SIMPLWINDOWS NAME:	Williams Sound PLA-DL210_IP Demo-CP3N.smw
CATEGORY:	(Category of device or logic)
VERSION:	Version 2.0
SUMMARY:	This module provides for basic control of the Williams Sound PLA-210 Professional Loop Amplifier. Basic controls consist of Input Levels, Input Mute, Input and Output VU meters, Preset Selection, and Amp Status and Loop Tests. Also reports the customized Input channel names(changed via front panel or manufacturer software.
GENERAL NOTES:	Requires PLA-DL210 firmware version 1.141 for proper operation. Only 1 telnet port is available on the devices. You must provide means for the user to connect/disconnect the TCP/IP client in the program if they want to use the manufacturer software. Likewise, if the user is connected via the manufacturer software is currently connected, the module will not be able to connect.
CRESTRON HARDWARE REQUIRED:	CP3N
SETUP OF CRESTRON HARDWARE:	CP3N, Smart Graphics XPanel
VENDOR FIRMWARE:	Requires PLA-DL210 firmware version 1.141 for proper operation
VENDOR SETUP:	



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CABLE DIAGRAM:	TCP-IP – Set telnet port on device to port 23 (default)
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CONTROL:

<Digital_AES_L>_Input_Vol<+/->	D	Press increase/decrease Vol by {Level_Change_Per_Hit} Parament.
<Digital_AES_L>_Input_Level	A	Assign a fader level to be sent when [xx_Send_New_Level] is pressed. Should be driven by an Analog Initialize or Preset with Ramp Time set to 0. (Range is a signed integer from -960 to 0, -960 being = to -96.0dB)
<Digital_AES_L>_Mute <On/Off>	D	Press Mute/Unmute the fader.
<Digital_AES_L>_Mute_Toggle	D	Press to Toggle Mute Status.
Poll<AES> State	D	Pulse to update the state of the given input (Fader Level, Mute Status, etc).
Poll_<Input/Output>_VU_Meters	D	While this input is HI, the module will ask for VU Meter data at {VU_Meter Refresh Rate}. When signal goes low, polling will stop. Intention is to latch this signal HI when the appropriate page is active, therefor only receiving the data when needed.
AGC_Preset-<Music/Voice/Custom>	D	Press to select a audio preset..
Loop_Test_Intiate	D	Press to run a Loop Test.
Get_Amp_Status	D	Press to get current status of Amp 1(Loop 1) and Amp 2(Loop 2).
Connect	D	Use to initiate the TCP/IP connection to the DL210.



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FEEDBACK:		
<Digital_AES_L>_Fader_Level	A	Indicates the current fader level for the input. (Signed integer from -960 to 0, -960 being = to -96.0dB)
<Digital_AES_L>_Input_Mute_FB	D	Indicates the current mute status of the input.
<Digital_AES_L>_Ch_Name	S	Reports the custom name assigned to the input via the PC/IPad/Front Panel.
Input_<AES_L>_VU Meter	A	Indicates the VU Levels for the input. For a gauge object on touchpanel. (0-65535)
Output_<Loop_A>_VU Meter	A	Indicates the VU Levels for the input. For a gauge object on touchpanel. (0-65535).
AGC_Preset-<Music/Voice/Custom>_FB	D	Indicates the active Preset.
Loop_<A/B>_Test_*	D	Reports Loop Test results.
Amp<1/2>_Temp	A	Reports the current temp of the Amps, updated every 60 seconds.
Amp,1/2>_over_<100c/125c>	D	Reports HI if temp is over * level
System(Processor_Temp)	A	Reports the current temp of the processor, updated every 60 seconds.
Amp_<1/2>_Ready/Clip Warning/Temp over 100c/Temp over 125c/Shutdown Fault/Enabled	D	Indicates the current status of Amp 1 & 2. Test runs automatically every 10 minutes or when Get_Amp_Status is pulsed.
Connect-F	D	Reports HI if TCP/IP Client is currently connected.
Client_Connection_Status	A	Reports the current connection status of the TCP/IP client.



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PARAMETERS:		
VU_Meter Refresh Rate	A	Integer stating the number of times per second to report the VU Level. This creates a lot of network traffic, use carefully! 1 to 30 times per second allowed.
Level_Change_Per_Hit	A	Integer setting the amount of change for every press of the Vol+/Vol- inputs.
IP_Address	S	IP address of the DL-210.

TESTING:	
OPS USED FOR TESTING:	3 Series (CP3N)
SIMPL WINDOWS USED FOR TESTING:	4.02.56.01
DEVICE DB USED FOR TESTING:	62.01.001.00
CRES DB USED FOR TESTING:	49.06.005.00
SYMBOL LIBRARY USED FOR TESTING:	508
SAMPLE PROGRAM:	Williams Sound PLA-DL210_IP Demo-CP3N
REVISION HISTORY:	Version 2.0