

Partner: Tripp Lite
Model: PDUMH15ATNET
Device Type: Power Distribution Unit

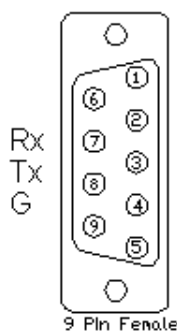


GENERAL INFORMATION

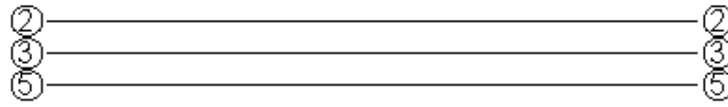
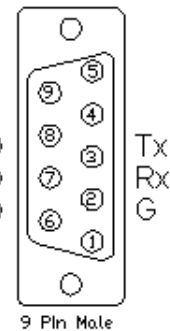
SIMPLWINDOWS NAME:	Tripp Lite PDUMH15ATNET v1.0
CATEGORY:	Miscellaneous
VERSION:	1.0
SUMMARY:	Basic control over single bank PDU with 8 outlets
GENERAL NOTES:	Feedback is based on response from unit. Unit doesn't always respond exactly when you make a change. Unit will update asap over rs232 The Ethernet port on the front of the unit does not support the control protocol and cannot be used with this module. Use the 232 port on the back. This module is System Builder compatible.
CRESTRON HARDWARE REQUIRED:	ST-COM, C2I-COM6, C2COM-2/3
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 2400 Parity: None Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	N/A
VENDOR SETUP:	Vendor must use the RS232 port on back of unit for control. The ports available on the front are only for unit configuration.
CABLE DIAGRAM:	CNSP-121

CNSP-121

Rear View of Connector



Rear View of Connector



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**CONTROL:**

Outlet_1_Enable_Ramp_Toggle	D	Pulse to enable or disable ramp control for the specified outlet
Outlet_1_Enable_Shed_Toggle	D	Pulse to enable or disable shed control for the specified outlet
Outlet_1_Force_On	D	Pulse to force the outlet on
Outlet_1_Force_Off	D	Pulse to force the outlet off
Outlet_1_Toggle	D	Pulse to toggle the state of the specified outlet to either on or off
Outlet_2_Enable_Ramp_Toggle	D	Pulse to enable or disable ramp control for the specified outlet
Outlet_2_Enable_Shed_Toggle	D	Pulse to enable or disable shed control for the specified outlet
Outlet_2_Force_On	D	Pulse to force the outlet on
Outlet_2_Force_Off	D	Pulse to force the outlet off
Outlet_2_Toggle	D	Pulse to toggle the state of the specified outlet to either on or off
Outlet_3_Enable_Ramp_Toggle	D	Pulse to enable or disable ramp control for the specified outlet
Outlet_3_Enable_Shed_Toggle	D	Pulse to enable or disable shed control for the specified outlet
Outlet_3_Force_On	D	Pulse to force the outlet on
Outlet_3_Force_Off	D	Pulse to force the outlet off
Outlet_3_Toggle	D	Pulse to toggle the state of the specified outlet to either on or off
Outlet_4_Enable_Ramp_Toggle	D	Pulse to enable or disable ramp control for the specified outlet
Outlet_4_Enable_Shed_Toggle	D	Pulse to enable or disable shed control for the specified outlet
Outlet_4_Force_On	D	Pulse to force the outlet on
Outlet_4_Force_Off	D	Pulse to force the outlet off
Outlet_4_Toggle	D	Pulse to toggle the state of the specified outlet to either on or off
Outlet_5_Enable_Ramp_Toggle	D	Pulse to enable or disable ramp control for the specified outlet
Outlet_5_Enable_Shed_Toggle	D	Pulse to enable or disable shed control for the specified outlet

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Outlet_5_Force_On	D	Pulse to force the outlet on
Outlet_5_Force_Off	D	Pulse to force the outlet off
Outlet_5_Toggle	D	Pulse to toggle the state of the specified outlet to either on or off
Outlet_6_Enable_Ramp_Toggle	D	Pulse to enable or disable ramp control for the specified outlet
Outlet_6_Enable_Shed_Toggle	D	Pulse to enable or disable shed control for the specified outlet
Outlet_6_Force_On	D	Pulse to force the outlet on
Outlet_6_Force_Off	D	Pulse to force the outlet off
Outlet_6_Toggle	D	Pulse to toggle the state of the specified outlet to either on or off
Outlet_7_Enable_Ramp_Toggle	D	Pulse to enable or disable ramp control for the specified outlet
Outlet_7_Enable_Shed_Toggle	D	Pulse to enable or disable shed control for the specified outlet
Outlet_7_Force_On	D	Pulse to force the outlet on
Outlet_7_Force_Off	D	Pulse to force the outlet off
Outlet_7_Toggle	D	Pulse to toggle the state of the specified outlet to either on or off
Outlet_8_Enable_Ramp_Toggle	D	Pulse to enable or disable ramp control for the specified outlet
Outlet_8_Enable_Shed_Toggle	D	Pulse to enable or disable shed control for the specified outlet
Outlet_8_Force_On	D	Pulse to force the outlet on
Outlet_8_Force_Off	D	Pulse to force the outlet off
Outlet_8_Toggle	D	Pulse to toggle the state of the specified outlet to either on or off
Automatic_Ramping_On/Off	D	Pulse to turn automatic ramping on or off
Automatic_Shedding_On/Off	D	Pulse to turn automatic shedding on or off
Set_Indexed_Ramp_Delay_Time	D	Pulse to select set ramp delay time
Set_Indexed_Shed_Delay_Time	D	Pulse to select set shed delay time
Key_0	D	Pulse the 0 digit for seconds entry
Key_1	D	Pulse the 1 digit for seconds entry

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Key_2	D	Pulse the 2 digit for seconds entry
Key_3	D	Pulse the 3 digit for seconds entry
Key_4	D	Pulse the 4 digit for seconds entry
Key_5	D	Pulse the 5 digit for seconds entry
Key_6	D	Pulse the 6 digit for seconds entry
Key_7	D	Pulse the 7 digit for seconds entry
Key_8	D	Pulse the 8 digit for seconds entry
Key_9	D	Pulse the 9 digit for seconds entry
Key_Clear	D	Pulse to clear the seconds entry
Key_Enter	D	Pulse to enter the seconds entry
From_Device	S	Serial input to receive data from device

FEEDBACK:

Outlet_1_Enable_Ramp_Is_On	D	High to indicate that the outlet Ramp feature is on
Outlet_1_Enable_Shed_Is_On	D	High to indicate that the outlet Shed feature is on
Outlet_1_Is_On	D	High to indicate that the outlet is on
Outlet_1_Is_Off	D	High to indicate that the outlet is off
Outlet_2_Enable_Ramp_Is_On	D	High to indicate that the outlet Ramp feature is on
Outlet_2_Enable_Shed_Is_On	D	High to indicate that the outlet Shed feature is on
Outlet_2_Is_On	D	High to indicate that the outlet is on
Outlet_2_Is_Off	D	High to indicate that the outlet is off
Outlet_3_Enable_Ramp_Is_On	D	High to indicate that the outlet Ramp feature is on
Outlet_3_Enable_Shed_Is_On	D	High to indicate that the outlet Shed feature is on
Outlet_3_Is_On	D	High to indicate that the outlet is on

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Outlet_3_Is_Off	D	High to indicate that the outlet is off
Outlet_4_Enable_Ramp_Is_On	D	High to indicate that the outlet Ramp feature is on
Outlet_4_Enable_Shed_Is_On	D	High to indicate that the outlet Shed feature is on
Outlet_4_Is_On	D	High to indicate that the outlet is on
Outlet_4_Is_Off	D	High to indicate that the outlet is off
Outlet_5_Enable_Ramp_Is_On	D	High to indicate that the outlet Ramp feature is on
Outlet_5_Enable_Shed_Is_On	D	High to indicate that the outlet Shed feature is on
Outlet_5_Is_On	D	High to indicate that the outlet is on
Outlet_5_Is_Off	D	High to indicate that the outlet is off
Outlet_6_Enable_Ramp_Is_On	D	High to indicate that the outlet Ramp feature is on
Outlet_6_Enable_Shed_Is_On	D	High to indicate that the outlet Shed feature is on
Outlet_6_Is_On	D	High to indicate that the outlet is on
Outlet_6_Is_Off	D	High to indicate that the outlet is off
Outlet_7_Enable_Ramp_Is_On	D	High to indicate that the outlet Ramp feature is on
Outlet_7_Enable_Shed_Is_On	D	High to indicate that the outlet Shed feature is on
Outlet_7_Is_On	D	High to indicate that the outlet is on
Outlet_7_Is_Off	D	High to indicate that the outlet is off
Outlet_8_Enable_Ramp_Is_On	D	High to indicate that the outlet Ramp feature is on
Outlet_8_Enable_Shed_Is_On	D	High to indicate that the outlet Shed feature is on
Outlet_8_Is_On	D	High to indicate that the outlet is on
Outlet_8_Is_Off	D	High to indicate that the outlet is off
Automatic_Ramp_Enabled	D	High to indicate that automatic ramping is enabled
Automatic_Shed_Enabled	D	High to indicate that automatic shedding is enabled
Set_Indexed_Ramp_Delay_Time_Selected	D	High to indicate that ramp delay time has been selected

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Set_Indexed_Shed_Delay_Time_Selected	D	High to indicate that shed delay time has been selected
Seconds_Display	A	Number of seconds that will be used to set ramp or shed times
Input_Voltage_Max	A	Analog value indicating unit's maximum voltage level
Input_Voltage_Min	A	Analog value indicating unit's minimum voltage level
Primary_Voltage_(Input)	A	Analog value indicating the main input voltage of unit(AC)
Primary_Voltage_(Freq)	A	Analog value indicating the main input frequency of unit(hz)
Secondary_Voltage_(Input)	A	Analog value indicating the secondary input voltage of unit(AC)
Secondary_Voltage_(Freq)	A	Analog value indicating the secondary input frequency of unit(hz)
Output_Percent_Load	A	Analog value indicating the output load in percent
Output_Voltage	A	Analog value indicating the output voltage
Output_Frequency	A	Analog value indicating the output frequency
Total_Output_Current	A	Analog value indicating the total output current
Output_Source_Is_Normal	D	High to indicate that the output source is normal
Output_Source_Is_Battery	D	High to indicate that the output source is battery
Output_Source_Is_Bypass	D	High to indicate that the output source is bypass
Output_Source_Is_Reducing	D	High to indicate that the output source is reducing
Output_Source_Is_Boosting	D	High to indicate that the output source is boosting
Output_Source_Is_Manual_Bypass	D	High to indicate that the output source is manual bypass
Output_Source_Is_None	D	High to indicate that the output source is none
Output_Source_Operating_On_Secondary_Source	D	High to indicate that the output source is operating on secondary
AC_Present_On_Primary	D	High to indicate that AC is present on primary
AC_Present_On_Secondary	D	High to indicate that AC is present on secondary
To_Device	S	Serial output to transmit commands to the device

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**TESTING:**

OPS USED FOR TESTING:	4.001.1012 (Feb 17 2009)
SIMPL WINDOWS USED FOR TESTING:	SIMPL Windows: 2.11.27
CRESTRON DB USED FOR TESTING:	21.01.014.00
DEVICE DB USED FOR TESTING:	25.05.002.00
SAMPLE PROGRAM:	Tripp Lite PDUMH15ATNET v1 Demo PRO2.smw
REVISION HISTORY:	v1.0