



Manufacturer: Gude Systems GmbH  
 Model: Expert PowerControl 8021, 8031, 8041  
 Device Type: Power Controller

### CONTACT SUPPORT:

<b>COMPANY NAME:</b>	Gude Systems GmbH, Germany
<b>SUPPORT CONTACT:</b>	Hornung Engineering, Germany
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<b>NOTES:</b>	

### GENERAL INFORMATION

<b>SIMPLWINDOWS NAME:</b>	Gude Module 8021_31_41 v4.0.umc
<b>CATEGORY:</b>	Power Controller
<b>VERSION:</b>	4.0
<b>SUMMARY:</b>	The module controls the PDU and IP power strip and relay module of GUDE Expert Power Control 8021, 8031 and 8041 through TCP/IP. It can switch relays on/off and meter different power quantities.
<b>GENERAL NOTES:</b>	Http/Https password protection is supported.
<b>CRESTRON HARDWARE REQUIRED:</b>	3-Series processor, 4-Series processor
<b>SETUP OF CRESTRON HARDWARE:</b>	The demo program was written for a CP3. The GUDE Expert Power Control is controlled via TCP/IP. Port: 80 (HTTP) or 443 (HTTPS)
<b>VENDOR FIRMWARE:</b>	V1.0.6
<b>VENDOR SETUP:</b>	Expert Power Control 8041
<b>CABLE DIAGRAM:</b>	Standard ethernet cable.

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### CONTROL:

<i>Signal/Function Name</i>		
Enable_HTTPS	D	Set the input to "1" to enable HTTPS.
Px_on	D	Press to switch the port x on.
Px_off	D	Press to switch the port x off.
Px_reset	D	Press to reset the port x.

### FEEDBACK:

Px_on_fb	D	Indicates the port x is on.
Px_off_fb	D	Indicates the port x is off.
Px_name	S	Indicates the current port name.
Sx_temperature	S	Indicates the temperature measured by the external sensor x.
Sx_humidity	S	Indicates the humidity measured by the external sensor x.
Sx_pressure	S	Indicates the pressure measured by the external sensor x.
OVP_ok	D	Indicates the line overvoltage-protection is ok.
Line_Voltage	S	Indicates the voltage at the line-port in V.
Residual_Current	S	Indicates the residual current in A.
Line_Current	S	Indicates the current at the line-port in A.
Line_Frequency	S	Indicates the frequency at the line-port in Hz.
Line_PhaseIU	S	Indicates the phase IU at the line-port in degree.
Line_ActivePower	S	Indicates the active power at the line-port in W.



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### PARAMETERS:

<b>ipadress</b>	S	IP address of the device being controlled.
<b>username</b>	S	The username for the password protection (if enabled).
<b>password</b>	S	The password for the password protection (if enabled).

### TESTING:

<b>OPS USED FOR TESTING:</b>	CP3N 1.601.3935.27221
<b>SIMPL WINDOWS USED FOR TESTING:</b>	V 4.11.06
<b>DEVICE DB USED FOR TESTING:</b>	V 200.00.015.00
<b>CRES DB USED FOR TESTING:</b>	V 200.00.004.00
<b>SAMPLE PROGRAM:</b>	Gude Demo 8021_31_41 v4.0.smw
<b>REVISION HISTORY:</b>	V 1.0 Initial Release V 2.0 Add HTTPS-Support and Port-Reset-Command V 3.0 Update for Dababase / NewtonSoft Compatibility V 4.0 Fixes a problem if both external sensors are from the same type