

**Partner: The Energy Detective**  
**Model: TED5000**  
**Device Type: Power Controller**



**GENERAL INFORMATION**

<b>SIMPLWINDOWS NAME:</b>	TED5000 v1.2
<b>CATEGORY:</b>	Power Controller
<b>VERSION:</b>	1.2
<b>SUMMARY:</b>	This module provides real-time power feedback and historical data from the TED5000.
<b>GENERAL NOTES:</b>	This module provides real-time power feedback and historical data from the TED5000. Including power (kW), cost (\$), emissions, and voltage. See data from today or monthly. Historical data in daily or monthly view for power or cost is retrieved.  This module is System Builder compatible.
<b>CRESTRON HARDWARE REQUIRED:</b>	C2-ENET, CNX-ENET+
<b>SETUP OF CRESTRON HARDWARE:</b>	TCP/IP Client PORT: 80 – (can be changed)
<b>VENDOR FIRMWARE:</b>	Gateway Version 1.0.350 Daughterboard Version 1.0.48 Footprints Version 1.0.185 MTU Version 1.0.61
<b>VENDOR SETUP:</b>	For the data collected by the TED5000 to be accurate the System Settings Wizard and the Utility Settings Wizard found in the Footprints web page must be configured.
<b>CABLE DIAGRAM:</b>	None

**CONTROL:**

<b>View_Total</b>	D	View Totals data
<b>View_MTU1-4</b>	D	View data from MTU (1-4)
<b>Goto_Next_Page</b>	D	Pulse to go to the next page
<b>Select_Power</b>	D	Selects power
<b>Select_Cost</b>	D	Selects cost
<b>Select_CO2</b>	D	Selects CO2

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Select_Voltage	D	Selects voltage
Select_Data	D	Selects data
Gauge_Up	D	Increases gauge
Gauge_Down	D	Decreases gauge
Select_Today	D	Selects today
Select_This_Month	D	Selects month
Data_Select_View_Daily	D	Selects data view daily
Data_Select_View_Monthly	D	Selects data view monthly
Data_Select_Power	D	Selects data power
Data_Select_Cost	D	Selects data cost
Data_Select_Next	D	Selects data next
Data_Select_Previous	D	Selects data previous
Data_Gauge_Up	D	Increases data gauge
Data_Gauge_Down	D	Decreases data gauge
{{TCP/IP_Client_>>_Connect-F}}	D	Digital signal to be routed from TCP/IP Client symbol Connect_F
{{TCP/IP_Client_>>_status}}	A	Analog signal to be routed from TCP/IP Client symbol status
{{TCP/IP_Client_>>_RX\$}}	S	Serial signal to be routed from TCP/IP Client symbol RX\$

**FEEDBACK:**

View_Total_Is_On	D	High to indicate the viewTotal is selected
View_MTU(1-4)_Is_On	D	High to indicate that MTU 1-4 is selected
Select_Power_Is_On	D	High to indicate that power is selected
Select_Cost_Is_On	D	High to indicate that cost is selected
Select_CO2_Is_On	D	High to indicate that CO2 is selected

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Select_Voltage_Is_On	D	High to indicate that voltage is selected
Select_Data_Is_On	D	High to indicate that data is selected
Select_Today_Is_On	D	High to indicate that today is selected
Select_This_Month_Is_On	D	High to indicate that this month is selected
Data_Select_View_Daily_Is_On	D	High to indicate that view daily is selected
Data_Select_View_Monthly_Is_On	D	High to indicate that view monthly is selected
Data_Select_Power_Is_On	D	High to indicate that power information is being displayed
Data_Select_Cost_Is_On	D	High to indicate that cost information is being displayed
Current_Reading_Text	S	Serial signal to be routed to the touchpanel current reading indirect text
Low_Time_Date_Text	S	Serial signal to be routed to the touchpanels low time date indirect text
Low_Value_Text	S	Serial signal to be routed to the touchpanels low value indirect text
High_Time_Date_Text	S	Serial signal to be routed to the touchpanels peak time date reading indirect text
High_Value_Text	S	Serial signal to be routed to the touchpanels peak value indirect text
Since_Time_Date_Text	S	Serial signal to be routed to the touchpanels since time date indirect text
Since_Value_Text	S	Serial signal to be routed to the touchpanels since value indirect text
Est_Value_Text	S	Serial signal to be routed to the touchpanels estimated value indirect text
Power_KVA_Text	S	Serial signal to be routed to the touchpanels KVA indirect text
Current_Value_Gauge	A	Analog value of current value to be sent to a gauge
Current_Peak_Gauge	A	Analog value of peak value to be sent to a gauge
Current_Min_Gauge	A	Analog value of low value to be sent to a gauge
Current_Gauge_Metric_(0-5)	A	Analog gauge metric to be sent to digital gauge
DataTag_(1-7)_Text	S	Serial signal to be routed to the touchpanels data tag indirect text
Data_(1-7)_Gauge	A	Analog value of gauge data values to be sent to a digital gauge

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Data_Gauge_Label_(1-7)_Text	S	Serial signal to be routed to the touchpanels data gauge labels indirect text
Data_Gauge_Metric_(1-5)_Text	S	Serial signal to be routed to the touchpanels data gauge metric indirect text
{{Connect_>>_TCP/IP_Client}}	D	Digital signal to be routed to TCP/IP Client symbol Connect
{{TX\$_>>_TCP/IP_Client}}	S	Serial signal to be routed to TCP/IP Client symbol TX\$

### PARAMETERS:

Update Time	P	Select update poll interval – Default = every 20 seconds
Gauge Output = 0 -	P	Select output gauge upper range - Default = %100
Port Number	P	Select communication port number – Default = 80d
File Location	P	Select file location – Default = NVRAM
Username	P	Enter in username - if there's no username enter ""
Password	P	Enter in password – if there's no password enter ""

### TESTING:

OPS USED FOR TESTING:	v4.001.1012
SIMPL WINDOWS USED FOR TESTING:	2.12.30
CRES DB USED FOR TESTING:	21.03.023.00
DEVICE DATABASE:	26.06.006.00
SYMBOL LIBRARY USED FOR TESTING:	657
SAMPLE PROGRAM:	TED5000 v1.2 Demo PRO2.smw
REVISION HISTORY:	<p>v1.0 – Original release.</p> <p>v1.1 – Corrected issue were the .dat file would not be found upon startup.</p> <ul style="list-style-type: none"> <li>- Corrected issue were the Data section Previous and Next buttons would sometimes skip dates.</li> <li>- Added parameter for file storage location.</li> </ul> <p>V1.2 – Added support for username and password</p>