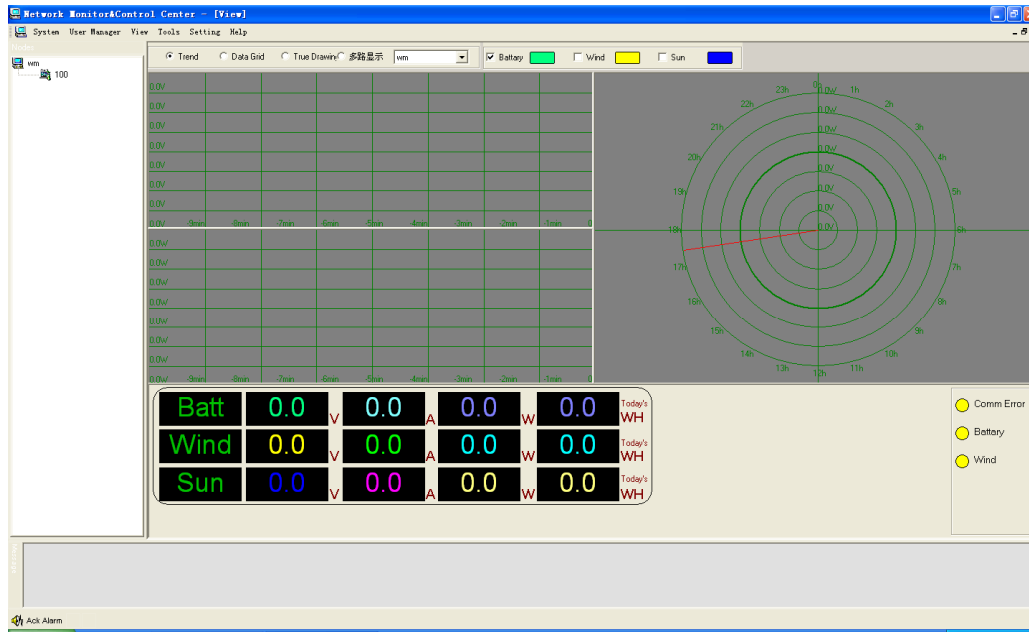


ADV Intelligent Wind/Solar Hybrid Charge Controller Software Manual



Remark :

Yellow LCD display stands for error communication .

Green LCD display stands for monitoring software works normally .

Menu

1.System

Different users have different rights to operate each function of software .Three types of users setted in this software. They are operators system manager and user manager. Users logo and switch different user privileged to operate the software .



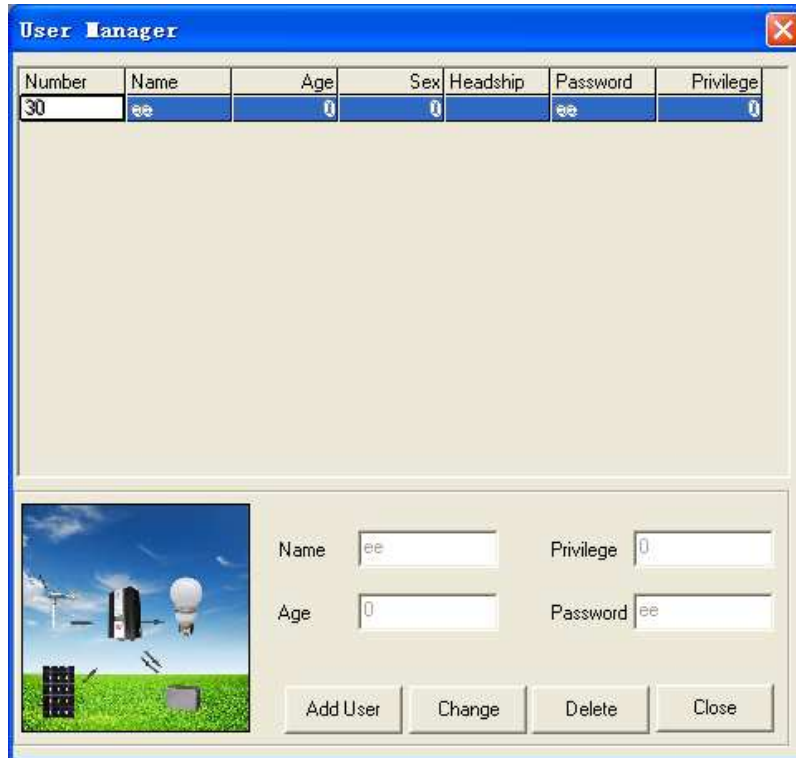
Switch User

Remark : pop-up window for reminding you logging or switching users with wrong user name or wrong password

2.User Manager

To perfect the safety and Operating traceability, the system sets user manager module.

Users divided into operators, system manager, and user manager . includes: name, age,sex ,headship ,password, privilege etc .As follows :



1)Operator:

Operator login software with password assigned by user manager , Operator just can view the real-time collection data, including grid data, V / P diagram, V / I diagram, RADAR diagram, control wind turbine working or not .

2)System Manager

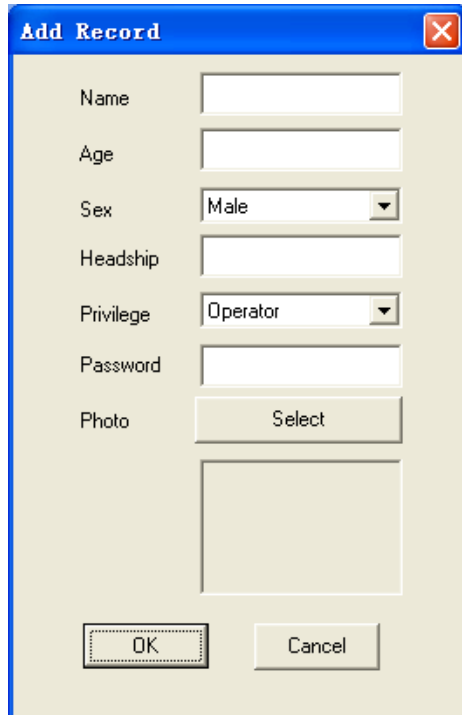
System manager has right to complete all work of operator . Besides . can adjust equipment parameters , control wind turbine running status .and changer load states. System manager can check all historical data record, alarm data records, performance statistical analysis etc

3)User Manager

User manager can't operate on the equipment . His main job is to add, delete, modify user information including name, headship ,password, photo, etc.

Add Record

System creates add record .Add record will stock each operating for different users. Add record just can been checked but not been modified . Click “ add record” . Pop up windows as follows :



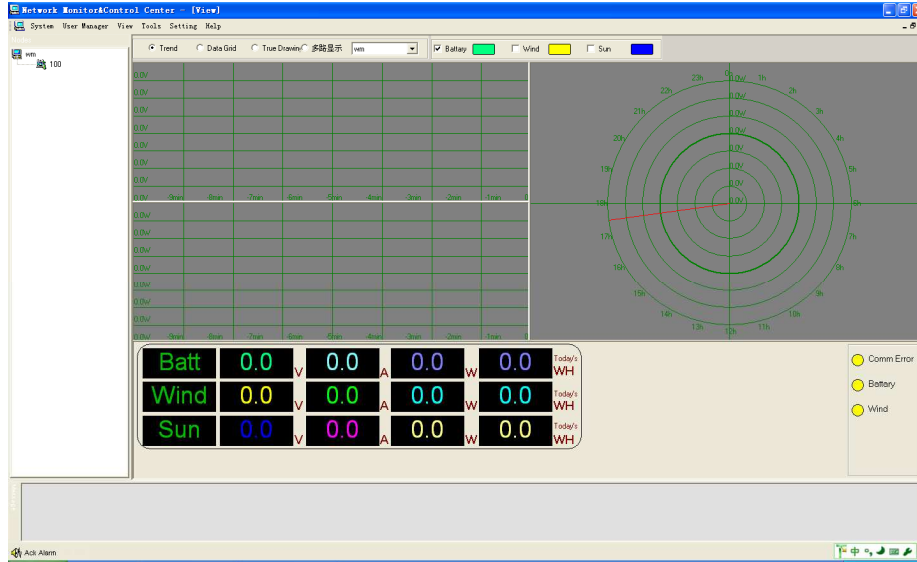
Input name, age, sex ,headship, privilege, upload photos . and click "OK" then personnel . then succeed in adding record .

If user manager wants to cancel the setted information .Select the number which need to be canceled . Click “ delete”

3、 View

To ensure user to view variety data of operating system conveniently. The software has view module which can check the state of whole system by View Trend .The View Menu includes trend graphs, Data Grid , True Drawing as following interface .

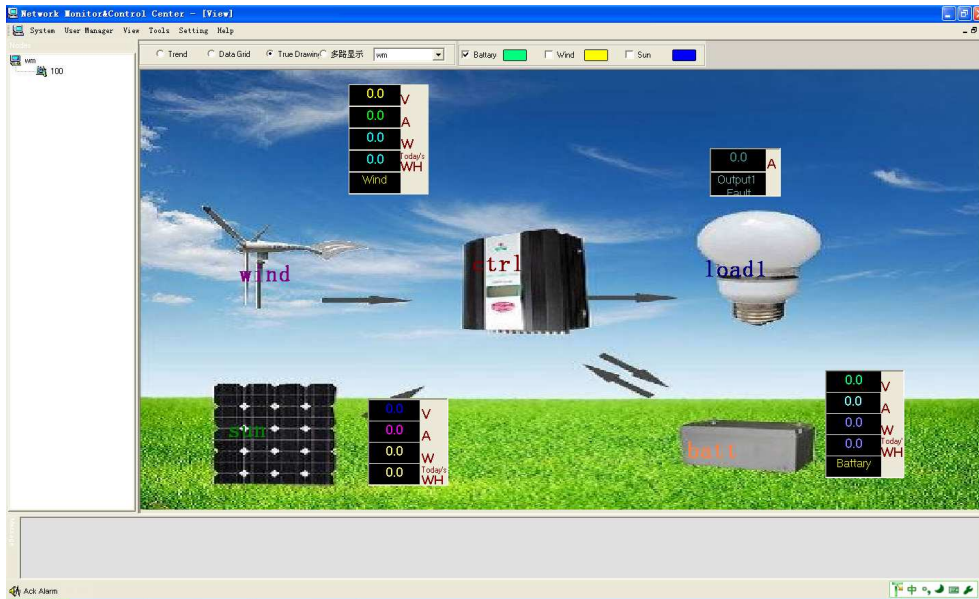
1) View Trend:



2) Data Grid:



3) True Drawing :



4、 Tools

Series of historical data collected during system runing. In order to ensure users to check whole data . System sets record module which can stock whole historical data . Tools Menu includes Query History Data, Query Log, Query Power, Query Alarm as follows :

1)Query History Data

Query Data

Begin Time: 2010-6-28 16:29:25 End Time: 2010-6-28 17:29:25

Area Name: Ctrl Name:

Buttons: Query, Save To Excel, Close

Time	Area Name	Ctrl Name	Batt Volt	Wind Volt	Wind Power	Wind Curr
2010-6-28 17:17:...	wm	100	0	0	0	0
2010-6-28 17:18:...	wm	100	0	0	0	0
2010-6-28 17:19:...	wm	100	0	0	0	0
2010-6-28 17:27:...	wm	100	0	0	0	0
2010-6-28 17:28:...	wm	100	0	0	0	0
2010-6-28 17:29:...	wm	100	0	0	0	0

Enter "begin time" and "end time", click " query" button, then the data list will show whole historical data within queried time period . Then click " Save to Excel" .Historical data will be stocked into excel files .

The operating of Query Log, Query Power, Query Alarm are same as Query History Data .

Note : Data just can be collected while the controller is connected with computer . And data will be collected at 0:00 erverday .

5、 Setting

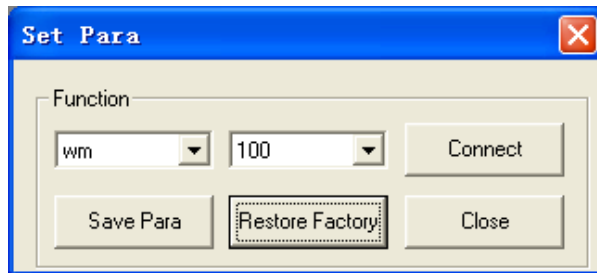
To make sure user can adjust parameters according to system's actual situation. The software sets setting module.User can adjust voltage ,current,admittance and other parameters. Meanwhile can set different output control model and working load (This function belongs to wind/solar hybrid street light controller)

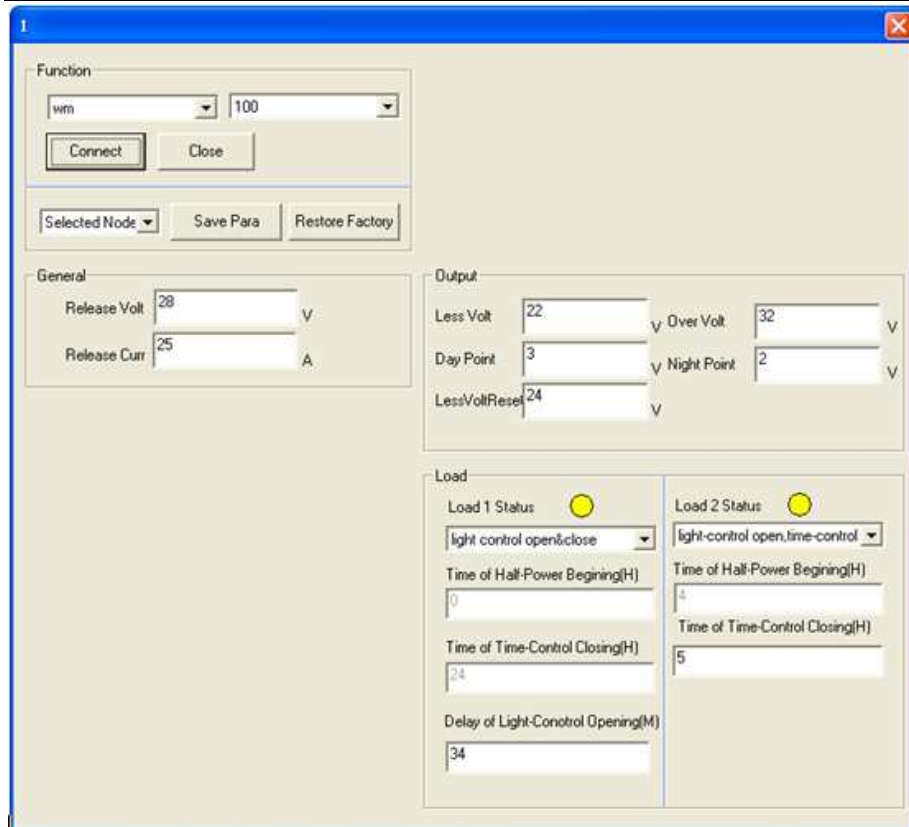
1) General:



To select language into Chinese Version or English Version . Then click " Save " The language will be setted .

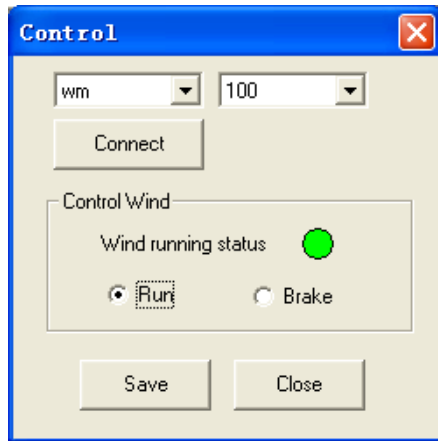
2) Running Parameters





User can set series voltage current and output mode via Running Parameters

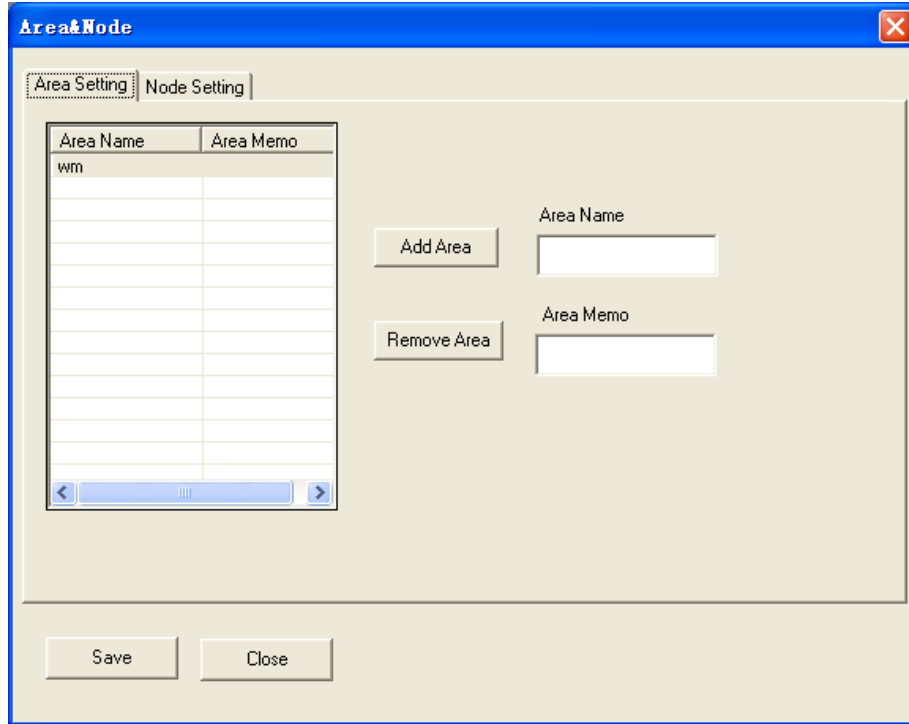
3) Switch Wind's Status



To set wind's status run or brake from this menu. Normally, the wind turbine should be under running.

4) Set Area-Node

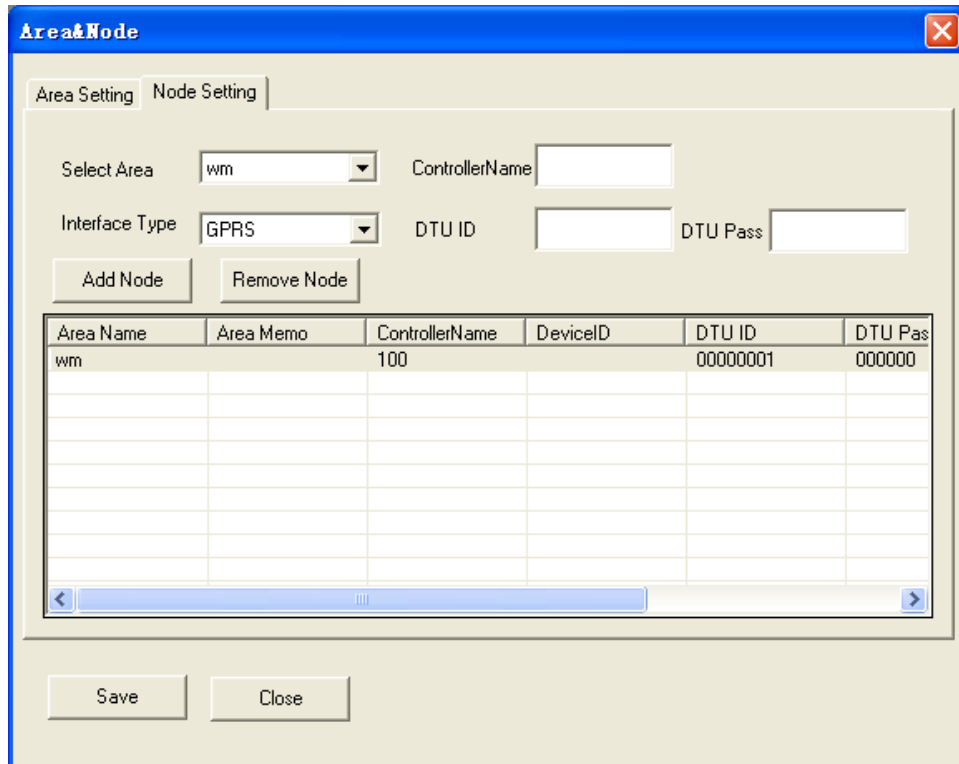
①Area setting



The screenshot shows the 'Area&Node' software window with the 'Area Setting' tab selected. On the left, there is a table with two columns: 'Area Name' and 'Area Memo'. The first row contains the text 'wm'. To the right of the table are two buttons: 'Add Area' and 'Remove Area'. Further right are two input fields labeled 'Area Name' and 'Area Memo'. At the bottom of the window are two buttons: 'Save' and 'Close'.

Fill information into “ Area Name” and “Area Memo” click “ Add Area” . Area name and area memo will be listed on the left . Then click “ Save” .

②Node setting

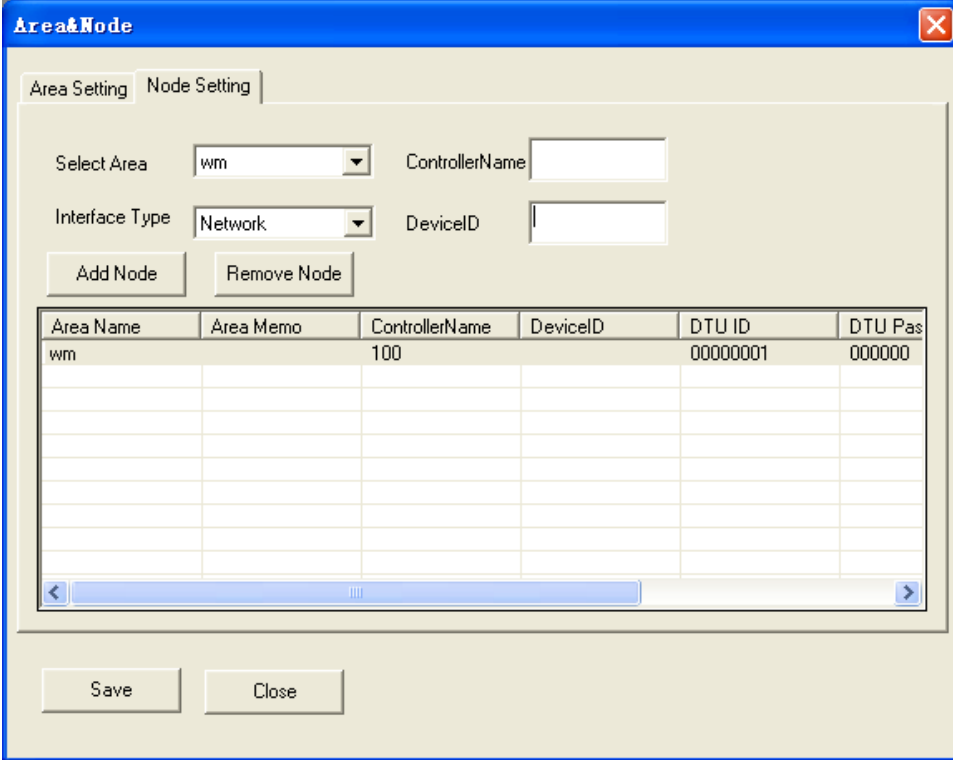


The screenshot shows the 'Area&Node' software window with the 'Node Setting' tab selected. At the top, there are two tabs: 'Area Setting' and 'Node Setting'. Below the tabs are several input fields: 'Select Area' (a dropdown menu with 'wm' selected), 'ControllerName' (a text input field), 'Interface Type' (a dropdown menu with 'GPRS' selected), 'DTU ID' (a text input field), and 'DTU Pass' (a text input field). Below these fields are two buttons: 'Add Node' and 'Remove Node'. At the bottom of the window are two buttons: 'Save' and 'Close'.

Area Name	Area Memo	ControllerName	DeviceID	DTU ID	DTU Pas
wm		100		00000001	000000

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To select selection area from “ Selection Area” Column . Input controller name into “ Controller Name” Column . Select communication type from “ Interface Type” . User can choose GPRS. Network. Com In the "selection area" column, input the controller name in the "Controller Name" field. In the "Select Interface Type" column,you can select means of communication: GPRS, cable or serial port. If choose GPRS communication mode, select controller area, input the corresponding controller name, "DTU ID" and "DTU Pass" IP ,then click "Save" , the status information of corresponding controller will be displayed as shown interface. If choose network, the corresponding control interface display as follows:



The screenshot shows a software window titled "Area&Node" with two tabs: "Area Setting" and "Node Setting". The "Area Setting" tab is active. It contains the following fields and controls:

- "Select Area" dropdown menu with "wm" selected.
- "ControllerName" text input field.
- "Interface Type" dropdown menu with "Network" selected.
- "DeviceID" text input field.
- "Add Node" and "Remove Node" buttons.
- A table with the following columns: "Area Name", "Area Memo", "ControllerName", "DeviceID", "DTU ID", and "DTU Pas".
- "Save" and "Close" buttons at the bottom.

Area Name	Area Memo	ControllerName	DeviceID	DTU ID	DTU Pas
wm		100		00000001	000000

If choose the com mode, the corresponding control interface as follows:

The screenshot shows the 'Area&Node' software interface. It has two tabs: 'Area Setting' and 'Node Setting'. The 'Area Setting' tab is active. It contains the following fields and controls:

- 'Select Area': A dropdown menu with 'wm' selected.
- 'ControllerName': An empty text input field.
- 'Interface Type': A dropdown menu with 'Com' selected.
- 'Com Port': A dropdown menu with 'COM1' selected.
- 'Add Node' and 'Remove Node': Two buttons.
- A table with the following columns: 'Area Name', 'Area Memo', 'ControllerName', 'DeviceID', 'DTU ID', and 'DTU Pas'. The first row contains the values: 'wm', an empty cell, '100', an empty cell, '00000001', and '000000'. There are several empty rows below.
- 'Save' and 'Close': Two buttons at the bottom.

If you need to remove controller information, you can choose the corresponding information, then click "Remove" . The controller information is be deleted .