

Without “Quick Start”, The package includes the following items:



DL-100TMS-ZT

Technical Support

- Product Website (DataSheet/Manual/Tool)
http://www.icpdas.com/root/product/solutions/remote_io/rs-485/dl_series/dl-100tmzt.html
- E-mail
service@icpdas.com

1 Introduction to the Configuration Parameters

1) Pan ID :

group identity for a ZigBee network, and must be the same for all devices in the same ZigBee network. (Setting Range : 0x0000~0x3FFF)

2) Address/Node ID :

distinguish identity of a specific the ZigBee module, and must be unique for each device connected the same ZigBee network.
(Setting Range : 0x01~0xFF)

3) RF Channel :

indicates the radio frequency channel, and must be set to the same value as other modules on the same ZigBee network.

Channel	0x00	0x01	0x0F
Frequency(MHz)	2405	2410	2480

RF channels 0x04, 0x09, 0x0E or 0x0F are recommended because they do not overlap with the Wi-Fi frequencies based.

2 Preparation

1) Before you use this Utility, please make sure you have installed the Microsoft .NET Framework 4. If you haven't installed .NET Framework yet, please refer to item 2 for more information, or refer to item 3 for more information about the installation of this Utility.

2) To download .NET Framework, refer to: <http://www.microsoft.com/en-us/download/details.aspx?id=17851>

3) The Utility software is located on the web at:

4) Connect DL-100TMS-ZT.

i. Use ZT-2000 Coordinator connect Default Parameter :

Protocol	Modbus
Checksum	Enable
PAN ID	0x0001
Node ID	0x01
RF Channel	0x00
RF Power	0x07

ii. Use RS-232

5) Power supply range : +10 ~ +30 VDC

3 Communication Test

As the ZigBee network is controlled by the ZigBee coordinator, the ZT-2550/ZT-2570 (ZigBee coordinator) must be configured first. Please refer to documents shown below for full details of how to configure these devices.

Once configuration of the ZigBee coordinator has been completed. Set the "Pan ID" and the "RF Channel" values for the DL-100TMS-ZT to the same values as the network, and then reboot the device. The module will automatically start to function on the ZigBee network using the default protocol.

※ Documents

http://ftp.icpdas.com.tw/pub/cd/usbcd/napdos/zigbee/zt_series/document/zt-255x/

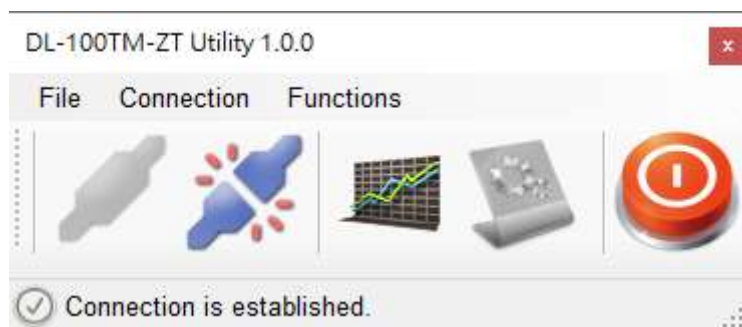
http://ftp.icpdas.com.tw/pub/cd/usbcd/napdos/zigbee/zt_series/document/zt-257x/






※ Configuration Utility (Used to configure ZT-2000 I/O device Coordinator)

http://ftp.icpdas.com.tw/pub/cd/usbcd/napdos/zigbee/zt_series/utility/


4 An overview of the Utility

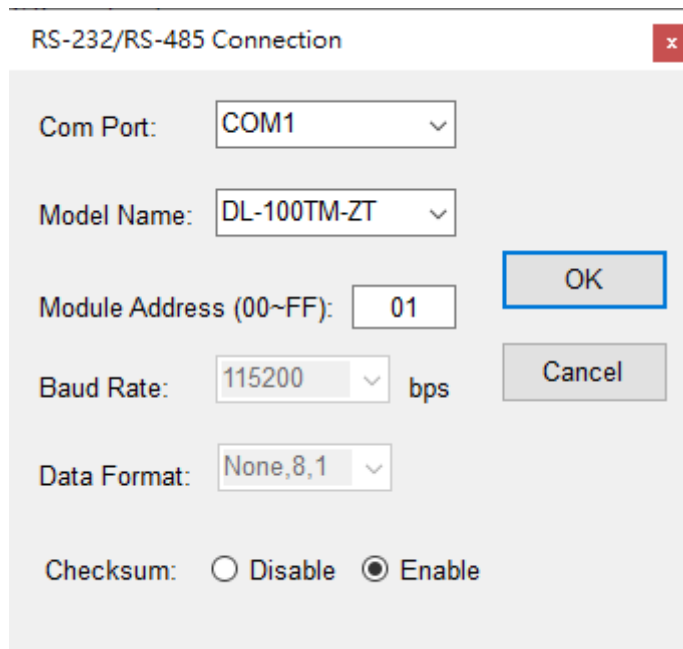
After launching the Utility, the program interface will be displayed, as shown below:



- Clicking either the “Connection->Connect->RS-232/RS-485” menu option or the  icon will create a connection from the serial port.
- Clicking either the “Connection->Disconnect” menu option or the  icon will disconnect the connection between the PC and the DL-100TMS-ZT.
- Clicking either the “Functions->Get Records” menu option or the  icon will retrieve the log data which is stored on the DL-100TMS-ZT.
- Clicking either the “Functions->Configuration” menu option or the  icon will allow the DL-100TMS-ZT to be configured.
- Clicking either the “File->Exit” menu option or the  icon will close the Utility software.

5 Connecting to the DL-100TMS-ZT Module

1. Clicking either the “Connection->Connect->RS-232/RS-485” menu option or the “” button will open the connection selection menu, as shown below:



RS-232/RS-485 Connection

Com Port: COM1

Model Name: DL-100TM-ZT





Module Address (00~FF): 01

Baud Rate: 115200 bps

Data Format: None,8,1


Checksum: ☐ Disable ☒ Enable

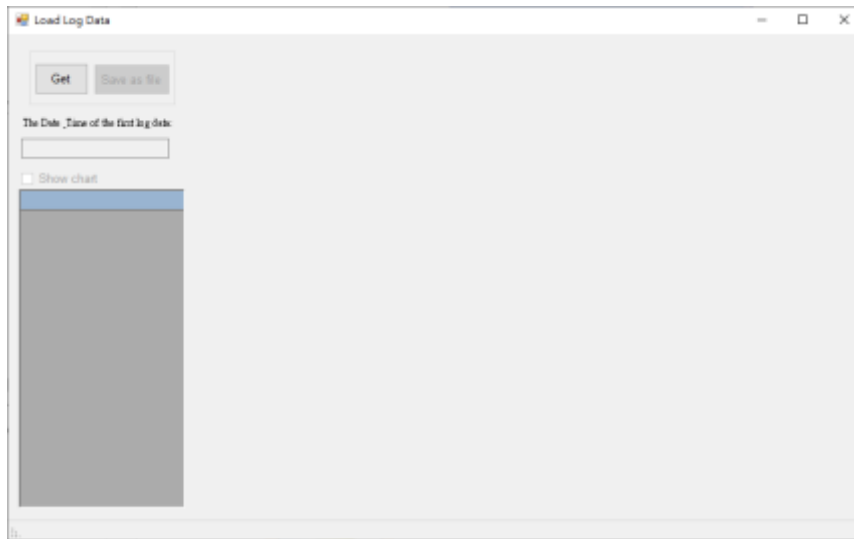
OK Cancel

2. Select your COM port number and set the Model Name selection to the DL-100TMS-ZT. If you are connecting to a new module, the default address will be 01. Click the “OK” button to connect to the DL-100TMS-ZT. **Note: The LCD will also indicate the module address.**
3. If a connection is successfully established, the Utility will return to the previous window and the message “Connection is established” will be displayed in the status bar. The “” and “” icons will also become available.
4. If you want retrieve records that are stored on the DL-100TMS-ZT, click either the “” icon or the “Functions->Get Records” menu option .
5. If you want to configure the DL-100TMS-ZT, either click the “” icon or “Functions->Configuration” menu option.

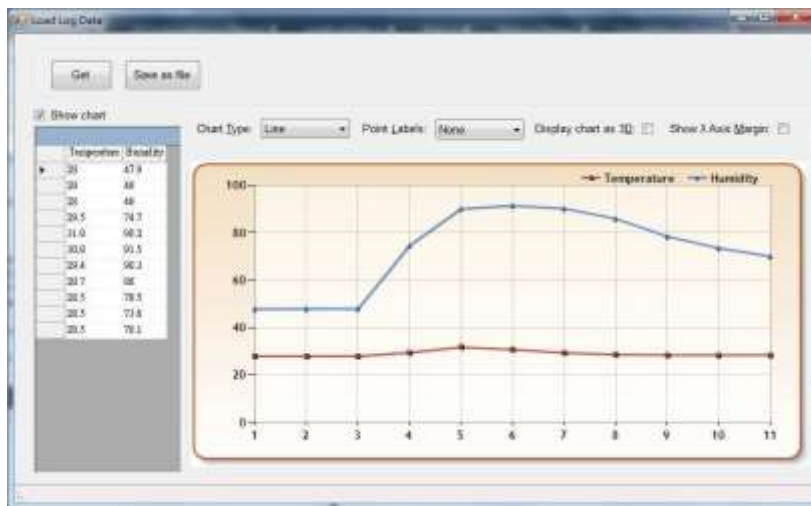
6 Retrieving Records

After a connection has been established between the PC and the DL-100TMS-ZT, you can retrieve log data via the Utility software. The procedure is as follows:


1. Either click the “Functions->Get Records” menu option or the  icon and the “Load Log Data” window will be displayed.
2. Click the “Get” button and wait until the data is successfully received.

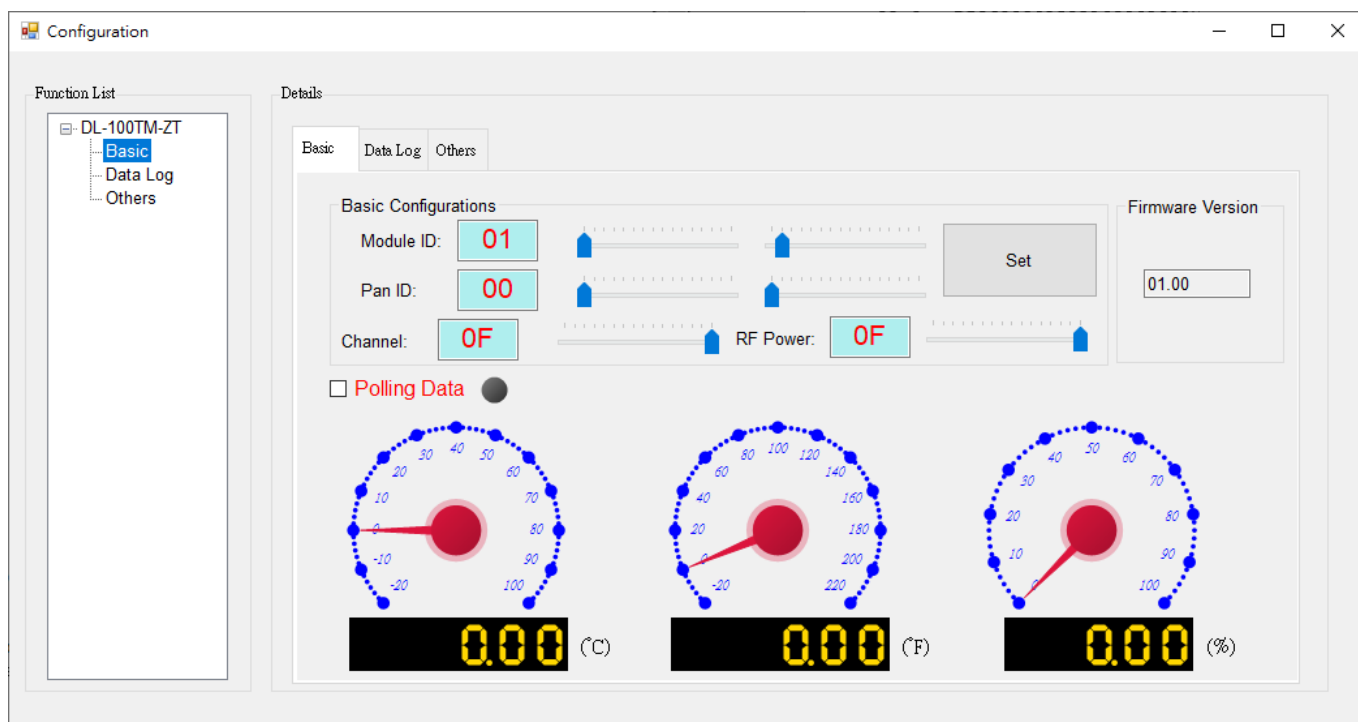


3. Press Show chart to draw the chart.



7 Configuration

1. After a connection has been established between the PC and the DL-100TMS-ZT, the DL-100TMS-ZT can be configured by either clicking the “” icon or the “Functions->Configuration” menu option. The “Configuration” window will then be displayed showing the current configuration of the module. If any of the values are changed, click the “Set” button to update the configuration of the module.



2. When you successfully connect to the DL-100TMS-ZT using the Utility software, the software will automatically disable the data log function. If the data log function is required, ensure that the data log function is enabled before closing the Utility software.