



TR transmitter

Transmitter transfer curve modify Procedure

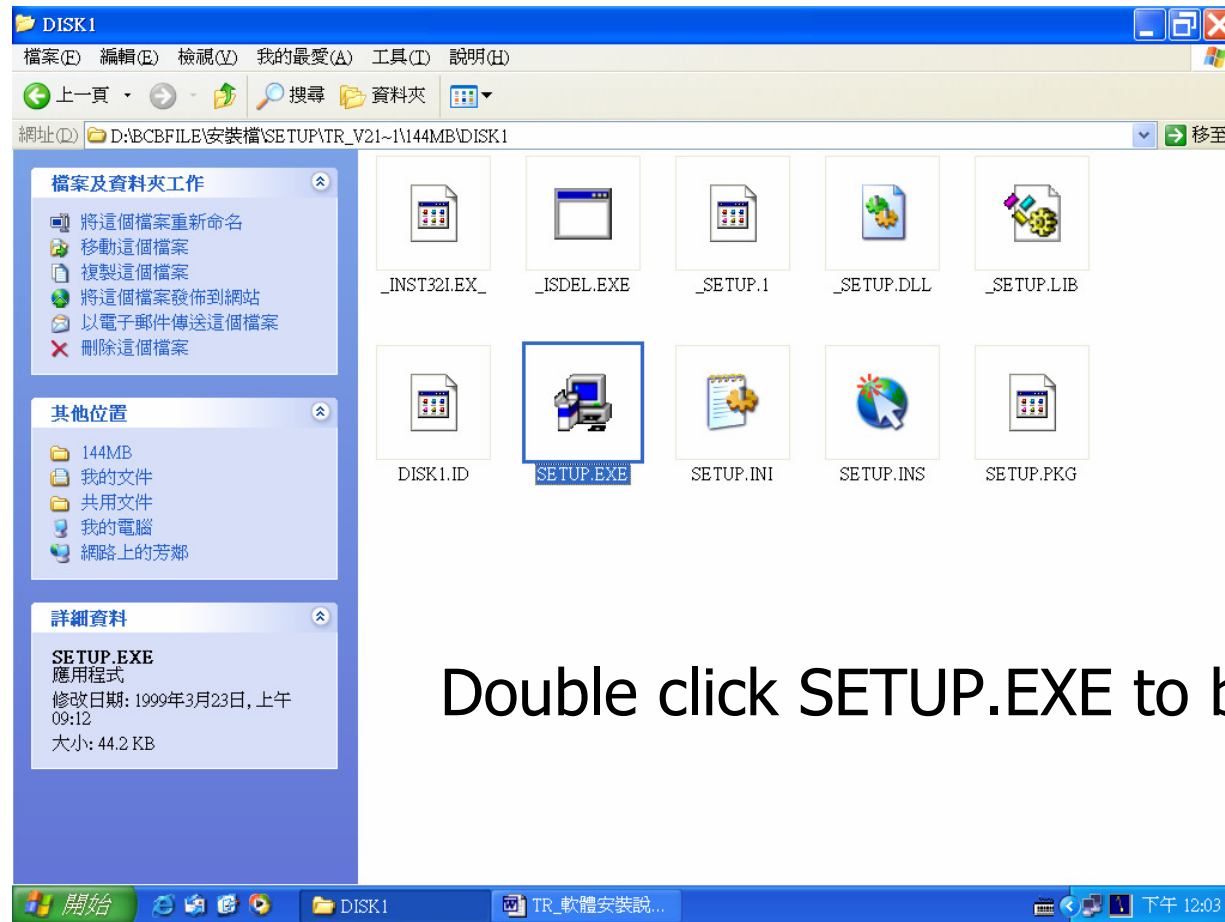


Outline

- Software Installation Temperature transmitter 1.25
- USB↔RS-485 device
 - Driver installation
- Wiring
- Using Software

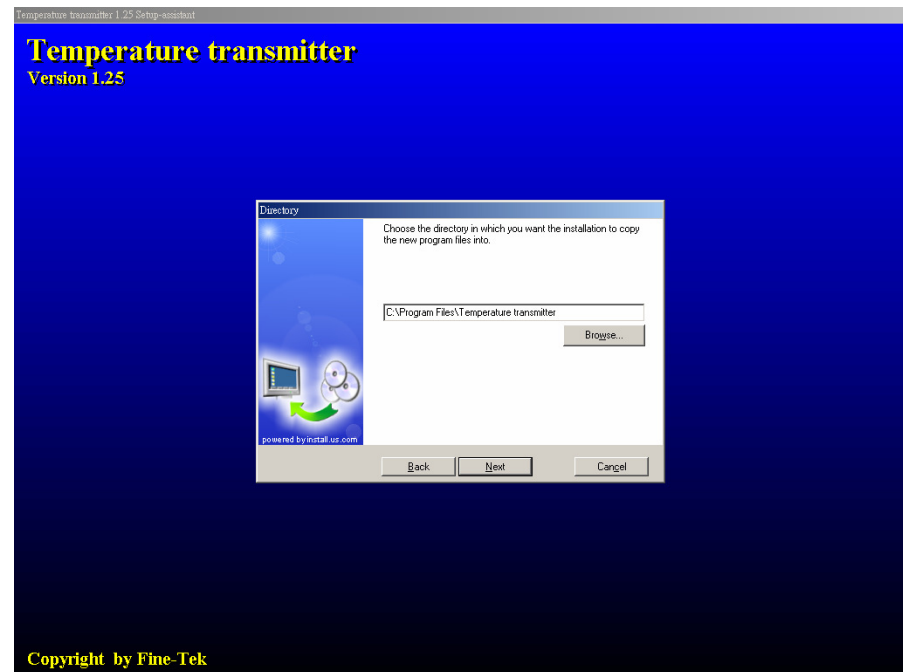
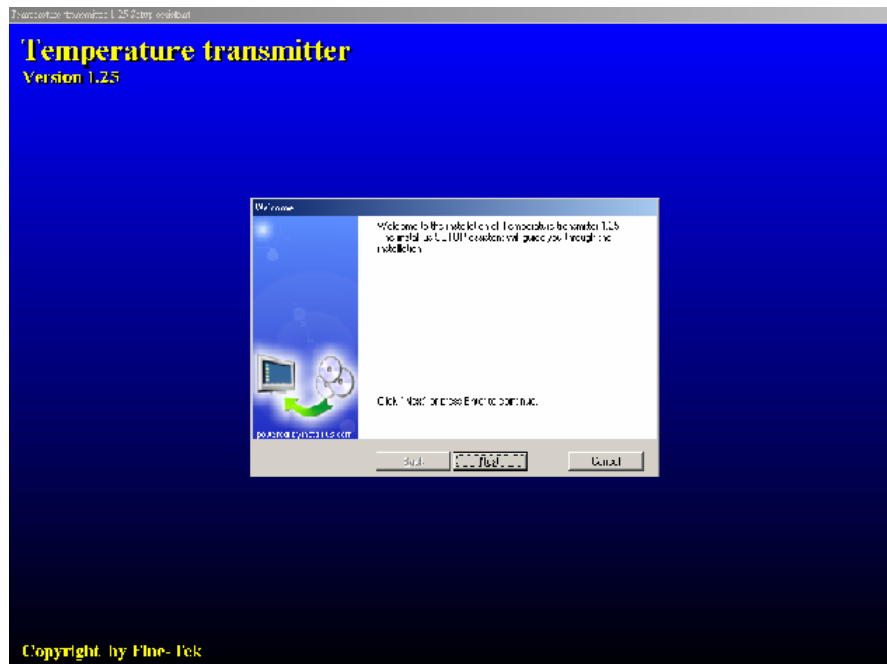
Software Installation

Temperature transmitter 1.2



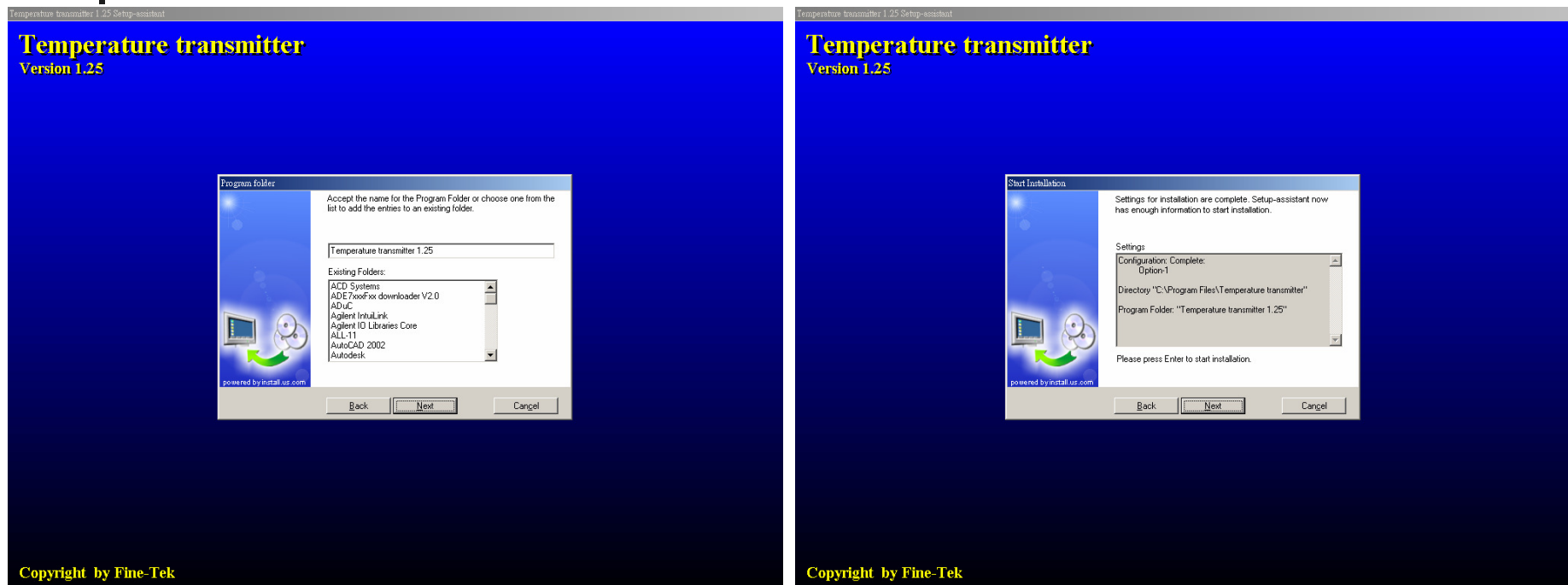
Double click SETUP.EXE to begin

Software Installation



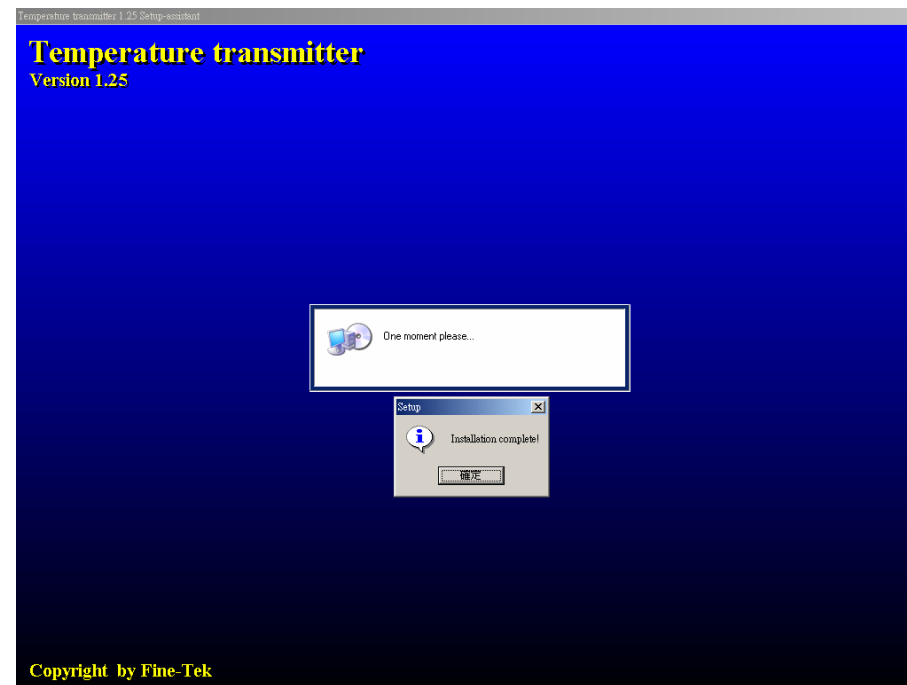
Click next button to continue install

Software Installation



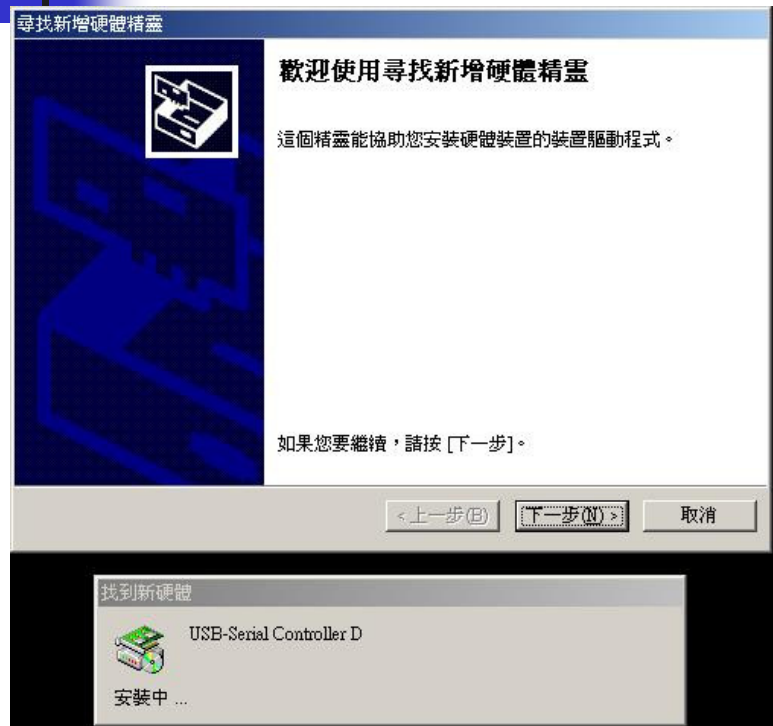


Software Installation



Software install complete.

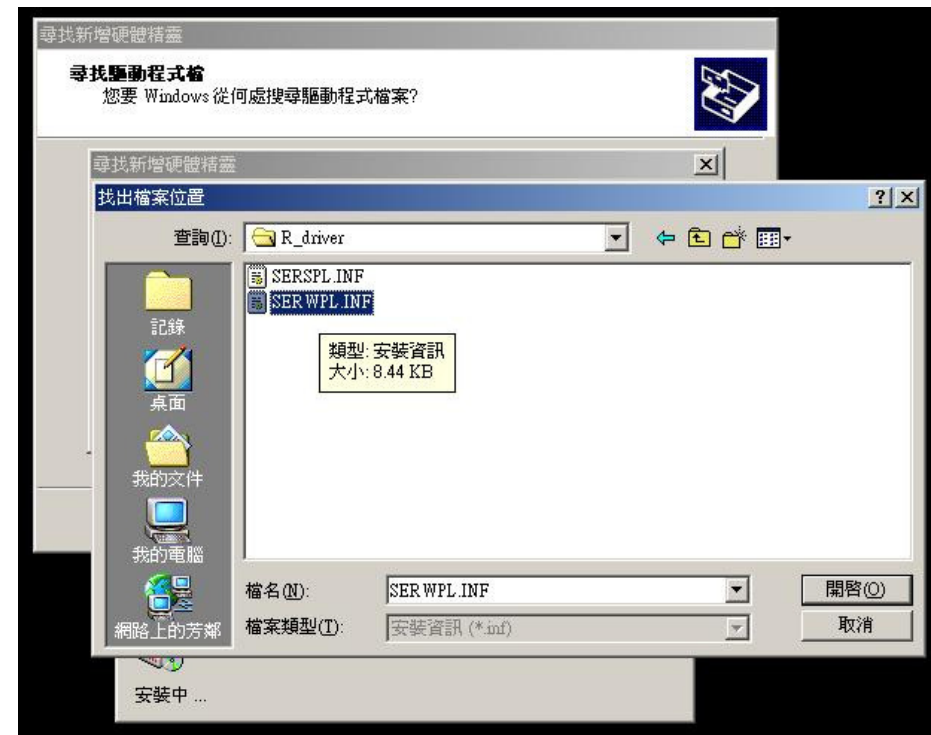
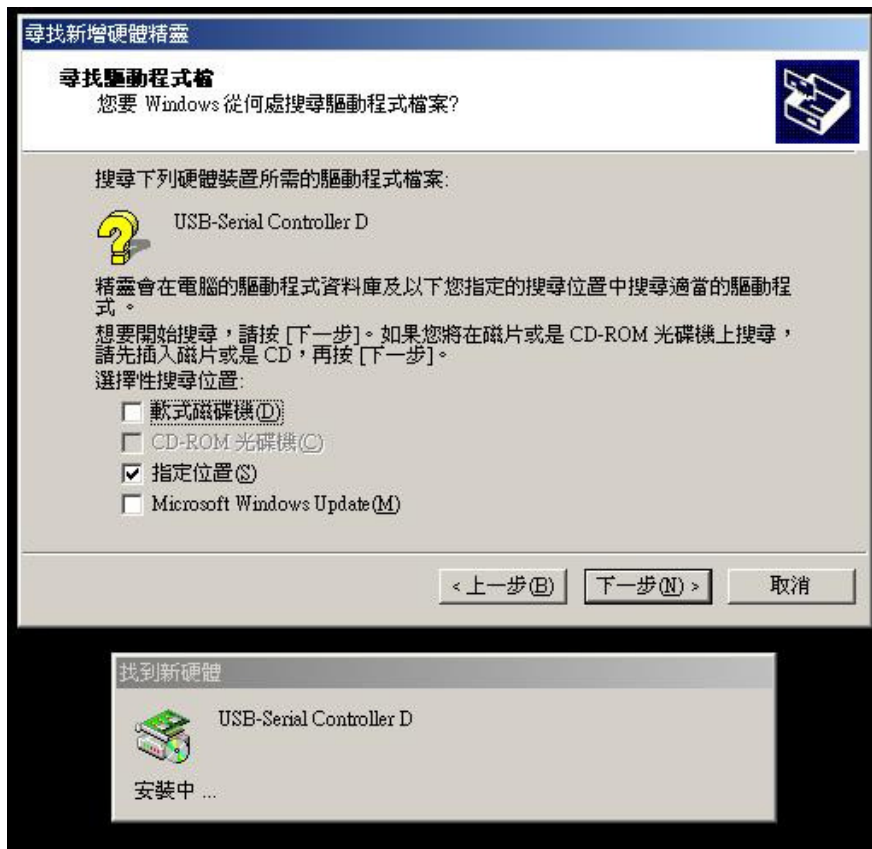
USB↔RS-485 device installation



Connect USB↔RS-485 device into PC-USB port

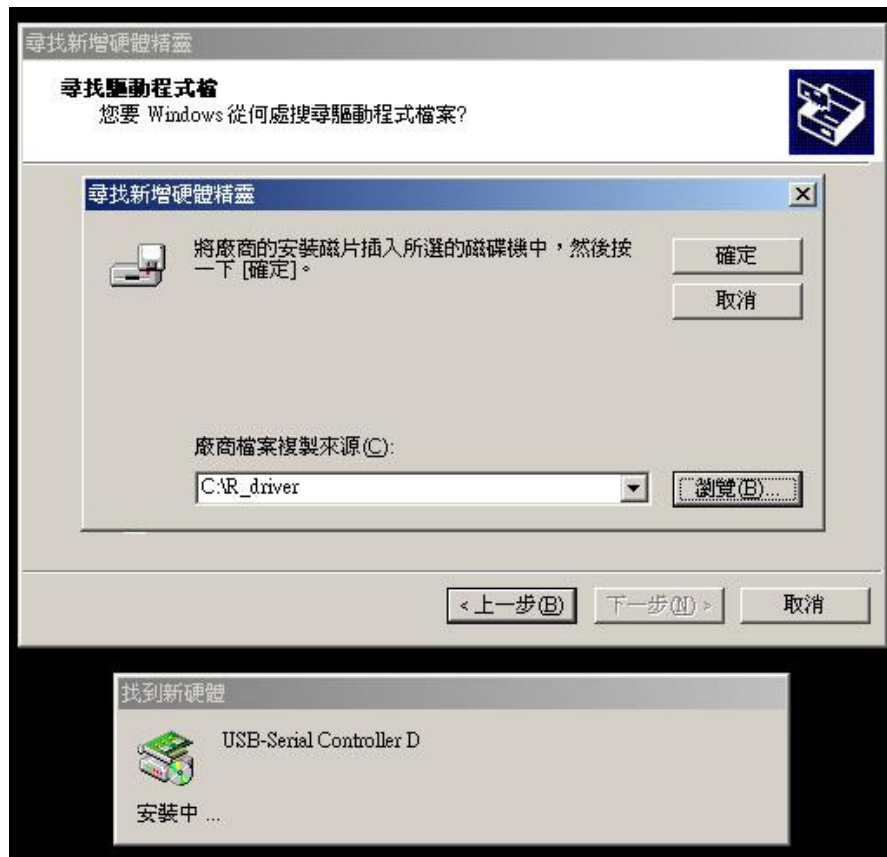
Install USB↔RS-485 device driver by manually locate the driver's location

USB ⇔ RS-485 device installation

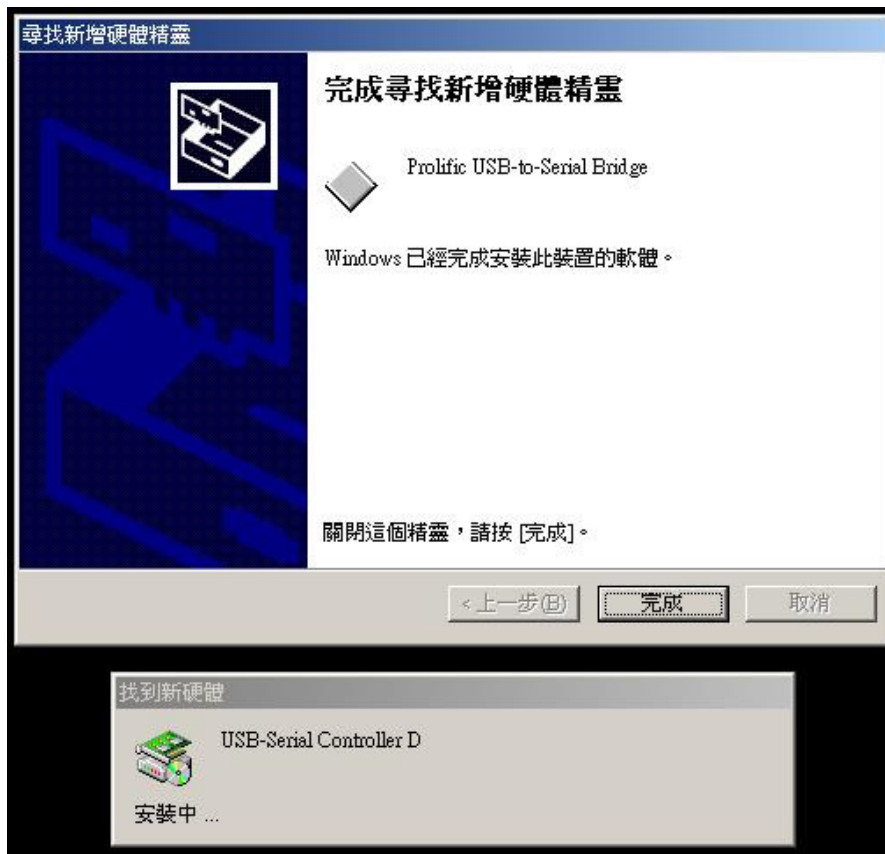


SERWPL.INF

USB ↔ RS-485 device installation

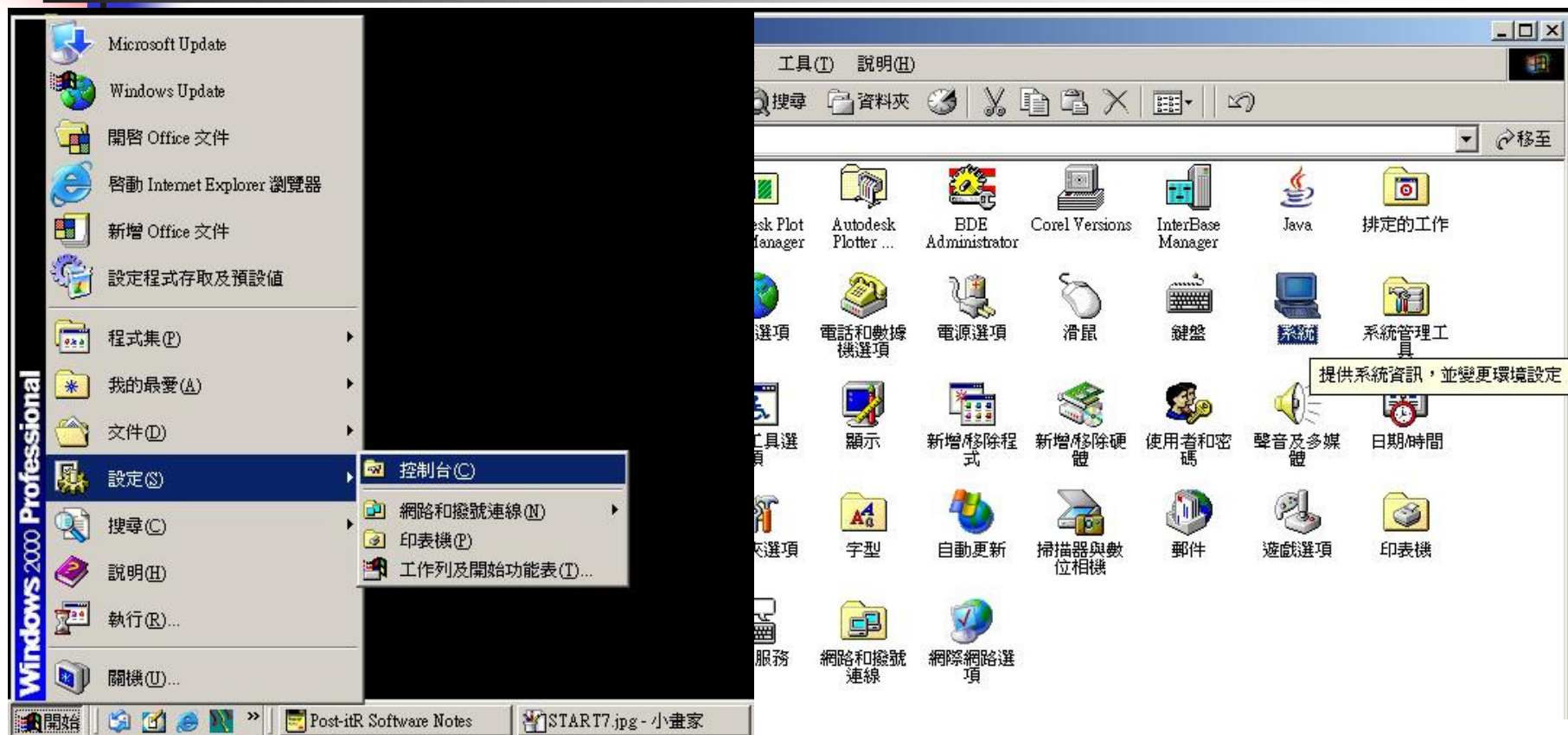


USB↔RS-485 device installation

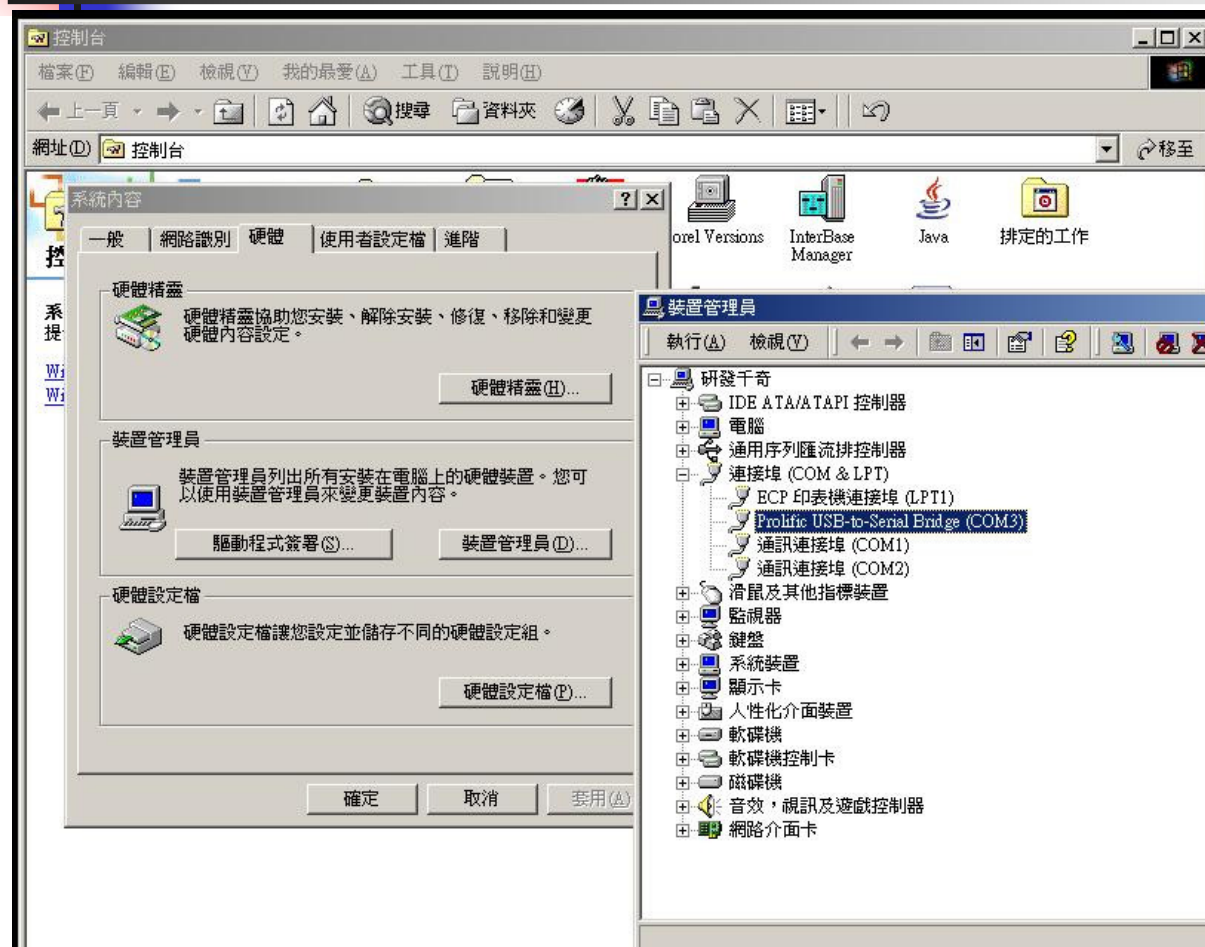


Driver install complete :
Prolific USB-to-Serial Bridge

USB ↔ RS-485 device installation



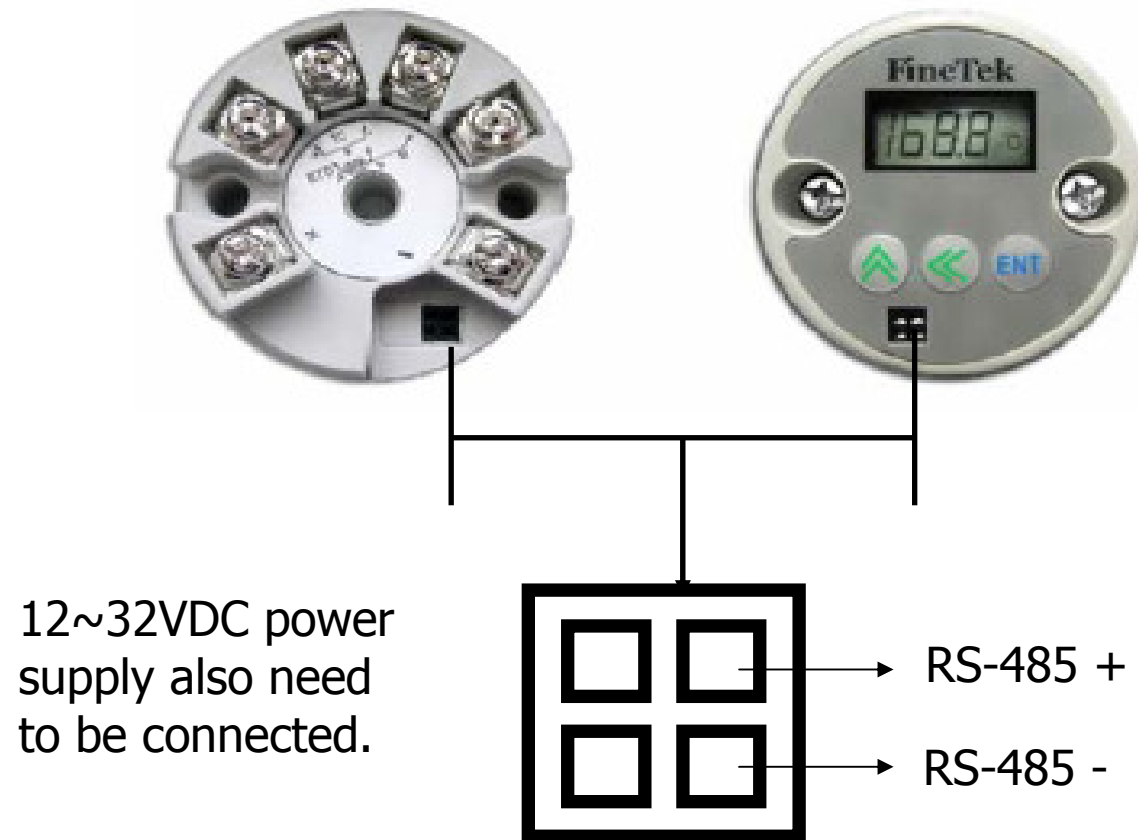
USB↔RS-485 device installation



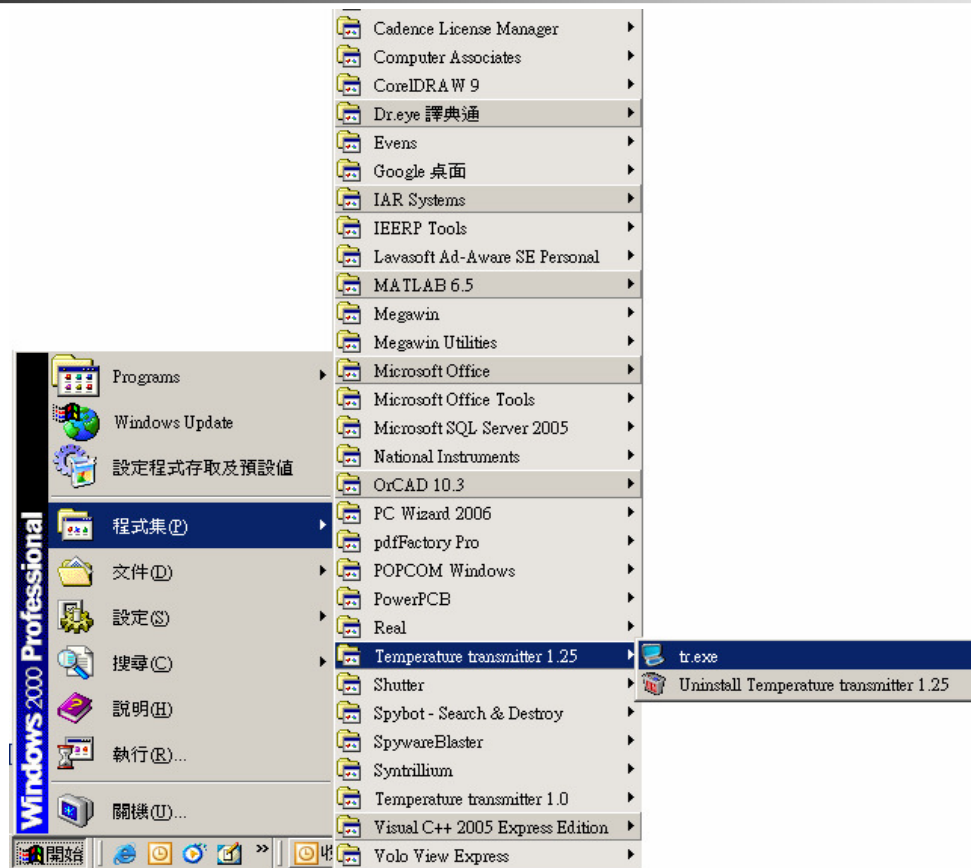
Be sure to see which com port the USB↔RS-485 device take.

Here COM3 is used in this demonstration.

Wiring



Using Software



Temperature transmitter 1.25 -> tr.exe

Using Software

The screenshot shows a software window titled "Temp. Transmitter". It has a menu bar with "File", "View", and "Help". Below the menu bar is a "Settings of Transmission" section with the following controls:

- Comport: A dropdown menu showing "COM1".
- BaudRate: A dropdown menu showing "9600".
- DataType: A dropdown menu showing "RTU".
- ID No.: A text box showing "001".
- Enable: A button.

Below the settings is a tabbed interface with "Reading" and "Writing" tabs. The "Reading" tab is active, showing a "Reading Setting" section with:

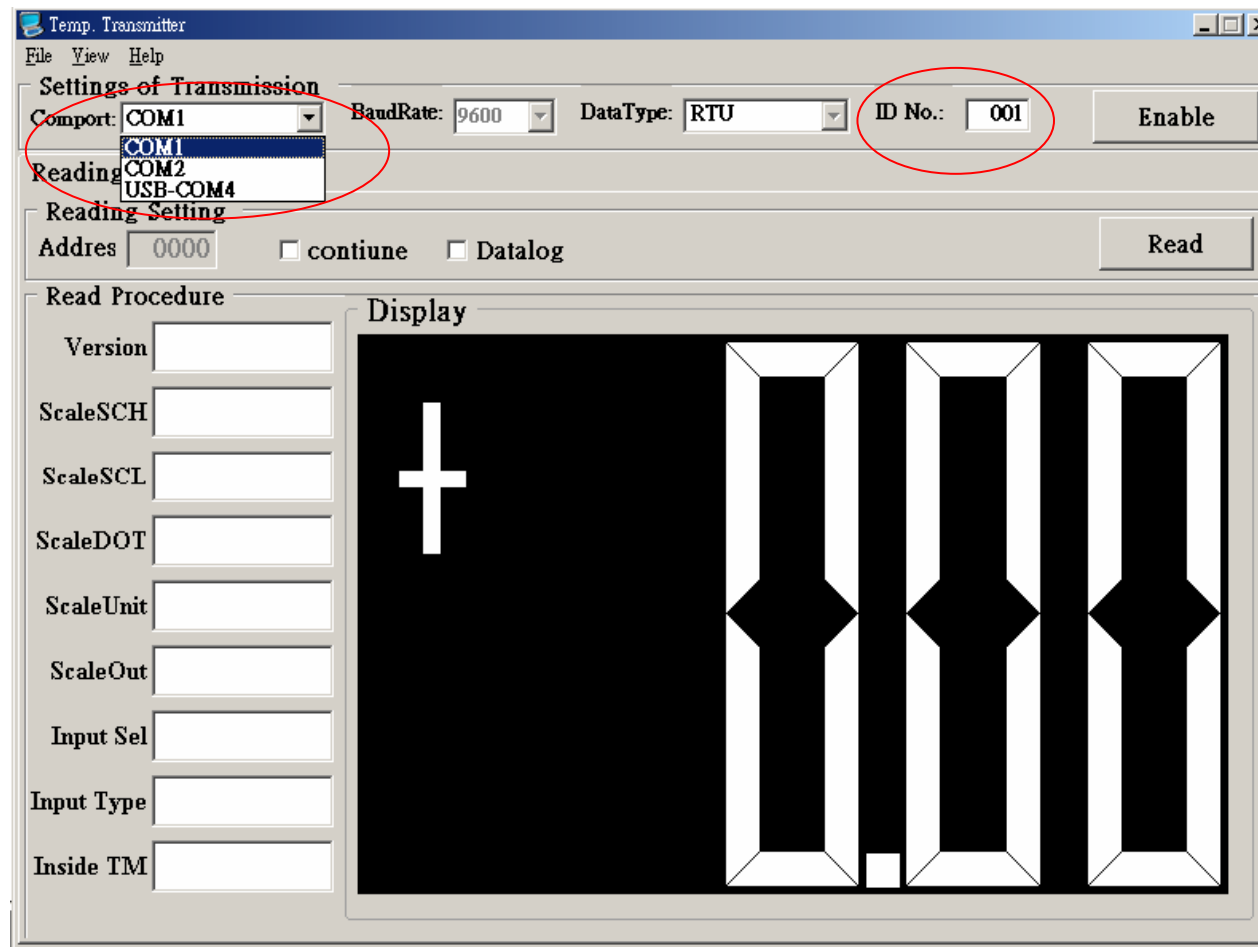
- Address: A text box showing "0000".
- ☐ contiune (misspelled as "contiune")
- ☐ Datalog
- Read: A button.

Below the reading settings is a "Read Procedure" section with several empty text boxes for input:

- Version
- ScaleSCH
- ScaleSCL
- ScaleDOT
- ScaleUnit
- ScaleOut
- Input Sel
- Input Type
- Inside TM

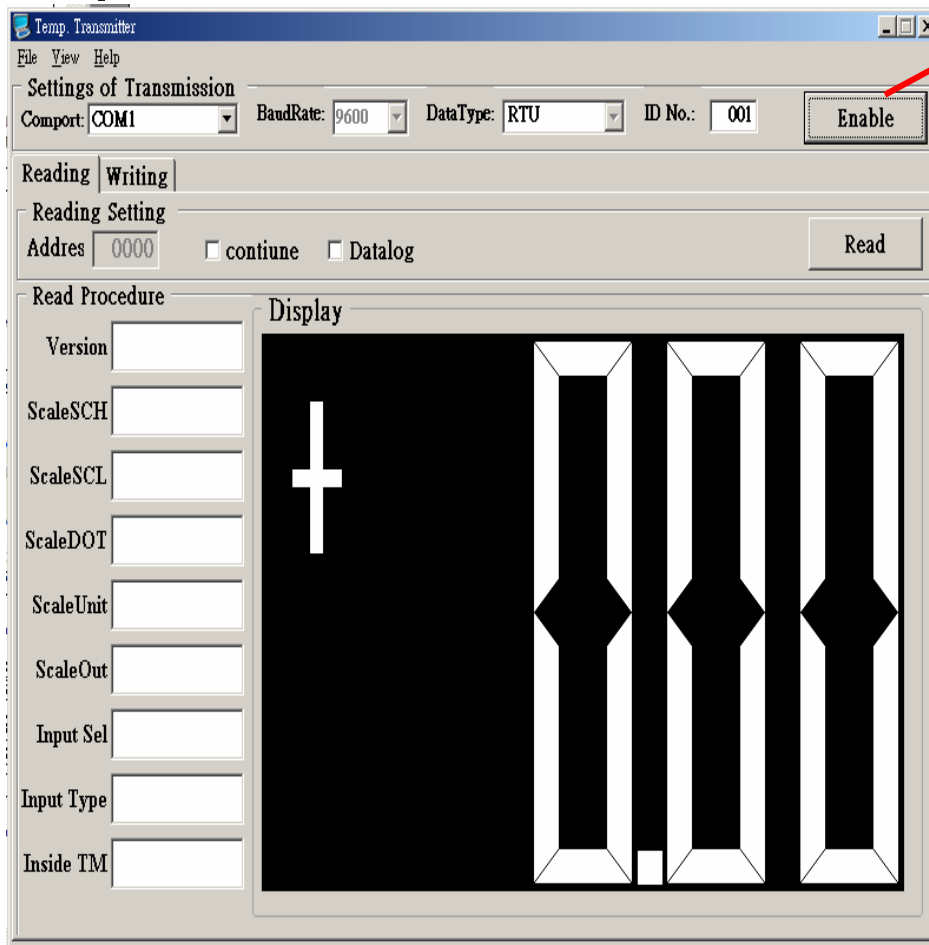
To the right of the "Read Procedure" section is a "Display" area. It features a large black rectangle with a white "+" sign on the left. To the right of the "+" sign are three vertical rectangular displays, each containing a black digit "0".

Using Software: com port setting



Select Comport & ID

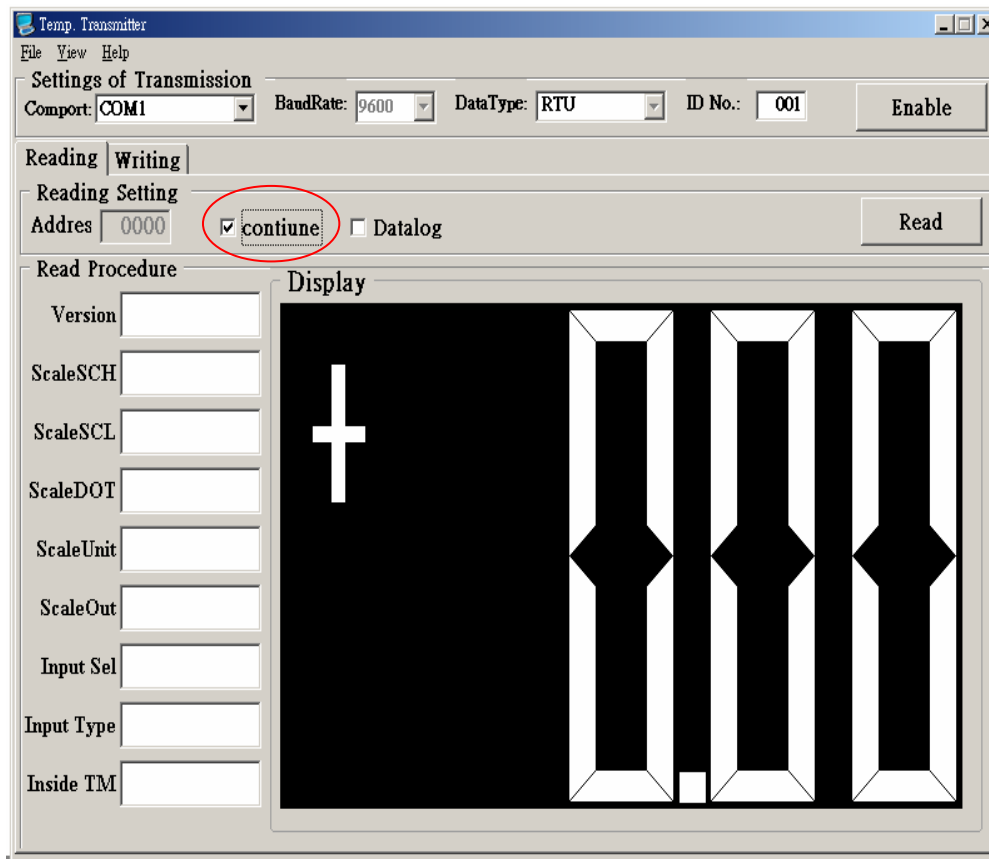
Using Software: com port setting



Disable

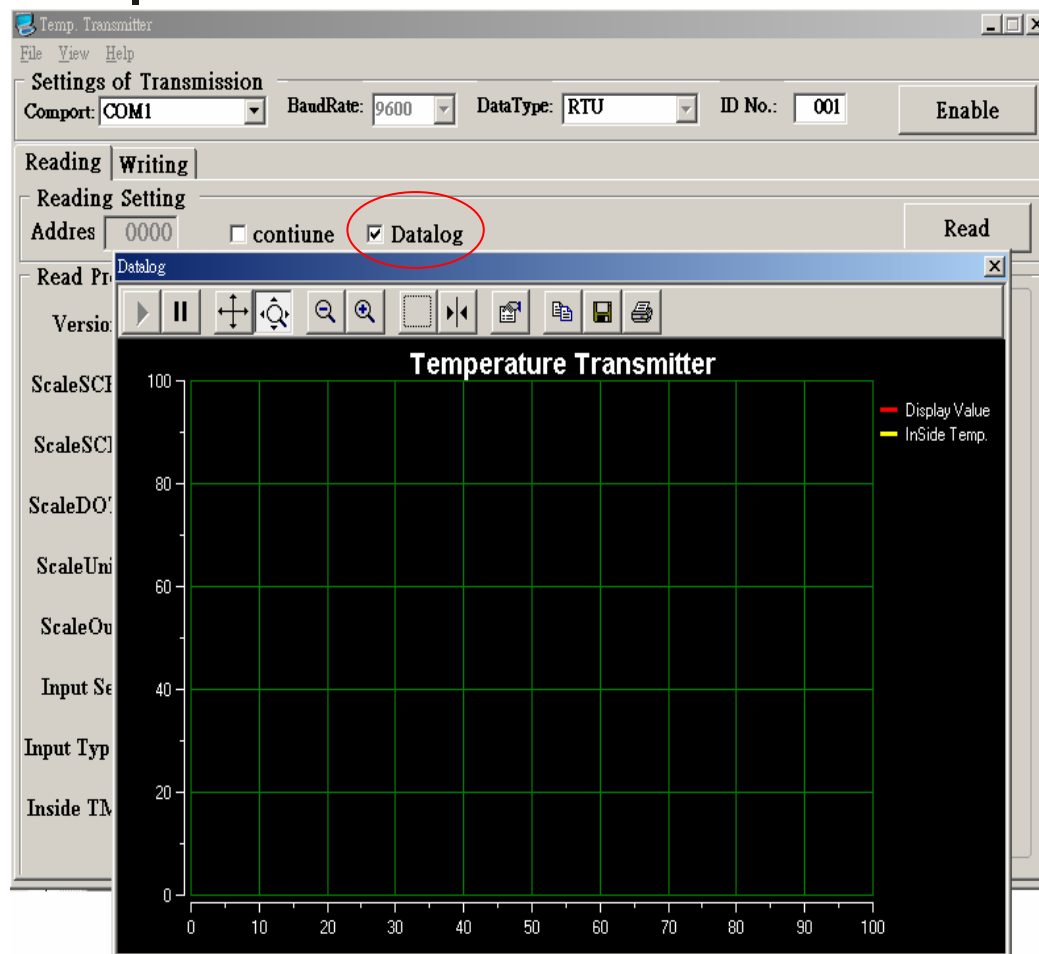
Enable the Settings of Comport · ID. No
Enable: The button “Enable” changes to “Disable”
Disable: The button “Disable” changes to “Enable” ”

Using Software: Read operation



**Click “continue” to checked(Pic A):
continuous to read the values of
Read Procedure, otherwise it
just one shot.**

Using Software: Read operation



Click “Datalog” to checked(Pic B): it will appear another window to show the curve of “Display value” & “Inside Temp.”



Using Software : Parameters Description

- VerCode : Firmware version
- ScalSch : Upper scale setting
- ScalScl : Lower scale setting
- ScalDot : Decimal point setting
- ScalUnit : C, F
- ScalOut : 4-20mA, 20-4mA
- InpType : TC/RTD/DC/mA (fixed)
- InpSelect : Sensor Type/Range (fixed)
- DisplayValue: Reading Value
- INSIDE_TM_VALUE: Instrument temperature

Using Software :

Object: 0~900°C transfer to 4~20mA

Unit : C
Out : 4-20
Dot : Dot1
SCH : 100
SCL : 0

Write

Enter and Choose
desired setting and
Click Write button to
save parameters into
transmitter.

The screenshot shows the 'Temp. Transmitter' software window. The 'Settings of Transmission' section at the top includes 'Comport: COM1', 'BaudRate: 9600', 'DataType: RTU', and 'ID No.: 001'. Below this, the 'Reading' and 'Writing' tabs are visible, with a yellow arrow pointing to the 'Writing' tab and the text 'Change to "Writing": Click the lable'. The 'Individual Setting' section is highlighted with a red box and contains three sub-sections: 'Unit' with radio buttons for 'C' (selected) and 'F'; 'Output' with radio buttons for '4~20mA' (selected) and '20~4mA'; and 'Dot' with radio buttons for '0' (selected), '1', '2', and '3'. The 'Easy Setting' section has a 'Sensor' tab selected, showing a list of temperature ranges. The '0-1000' range is highlighted with a red box. Below the ranges are sections for 'Current' (0-20mA, 4-20mA) and 'Voltage' (0-0.5V to 0-20V). At the bottom, there is a 'Special Range' section with 'From' and 'To' input fields (both set to 0) and a 'Notice: Dot position' label. A 'Write' button is located at the bottom right of the 'Easy Setting' section, and another 'Write' button is at the bottom right of the 'Special Range' section. A 'Clear' button is at the bottom right of the 'Procedure' section.

Temp. Transmitter

File View Help

Settings of Transmission

Comport: COM1 BaudRate: 9600 DataType: RTU ID No.: 001 Enable

Reading Writing ← Change to "Writing": Click the lable

Individual Setting

Unit
☒ C ☐ F

Output
☒ 4~20mA ☐ 20~4mA

Dot
☒ 0 ☐ 1 ☐ 2 ☐ 3

Easy Setting

Sensor

TC
☒ K ☐ S
☐ J ☐ B
☐ T ☐ N
☐ E ☐ PT
☐ R

Current
☐ 0-20mA
☐ 4-20mA

Voltage
☐ 0-0.5V
☐ 0-1V
☐ 0-5V
☐ 0-10V
☐ 0-20V

Range

☒ -500-1000 ☐ 0-1000 ☐ 1000-2000 ☐ 2000-3000 ☐ 3000-5000
☐ -500-2000 ☐ 0-2000 ☐ 1000-3000 ☐ 2000-4000 ☐ 3000-6000
☐ -500-3000 ☐ 0-3000 ☐ 1000-4000 ☐ 2000-5000 ☐ 3000-7000
☐ -500-4000 ☐ 0-4000 ☐ 1000-5000 ☐ 2000-6000 ☐ 3000-8000
☐ -500-5000 ☐ 0-5000 ☐ 1000-6000 ☐ 2000-7000 ☐ 3000-9000
☐ -500-6000 ☐ 0-6000 ☐ 1000-7000 ☐ 2000-8000 ☐ 3000-9999
☐ -500-7000 ☐ 0-7000 ☐ 1000-8000 ☐ 2000-9000
☐ -500-8000 ☐ 0-8000 ☐ 1000-9000 ☐ 2000-9999
☐ -500-9000 ☐ 0-9000 ☐ 1000-9999 ☐ 3000-4000

Write

Special Range

From 0 To 0 Notice: Dot position Write

Procedure

Clear

Using Software : Check after writing

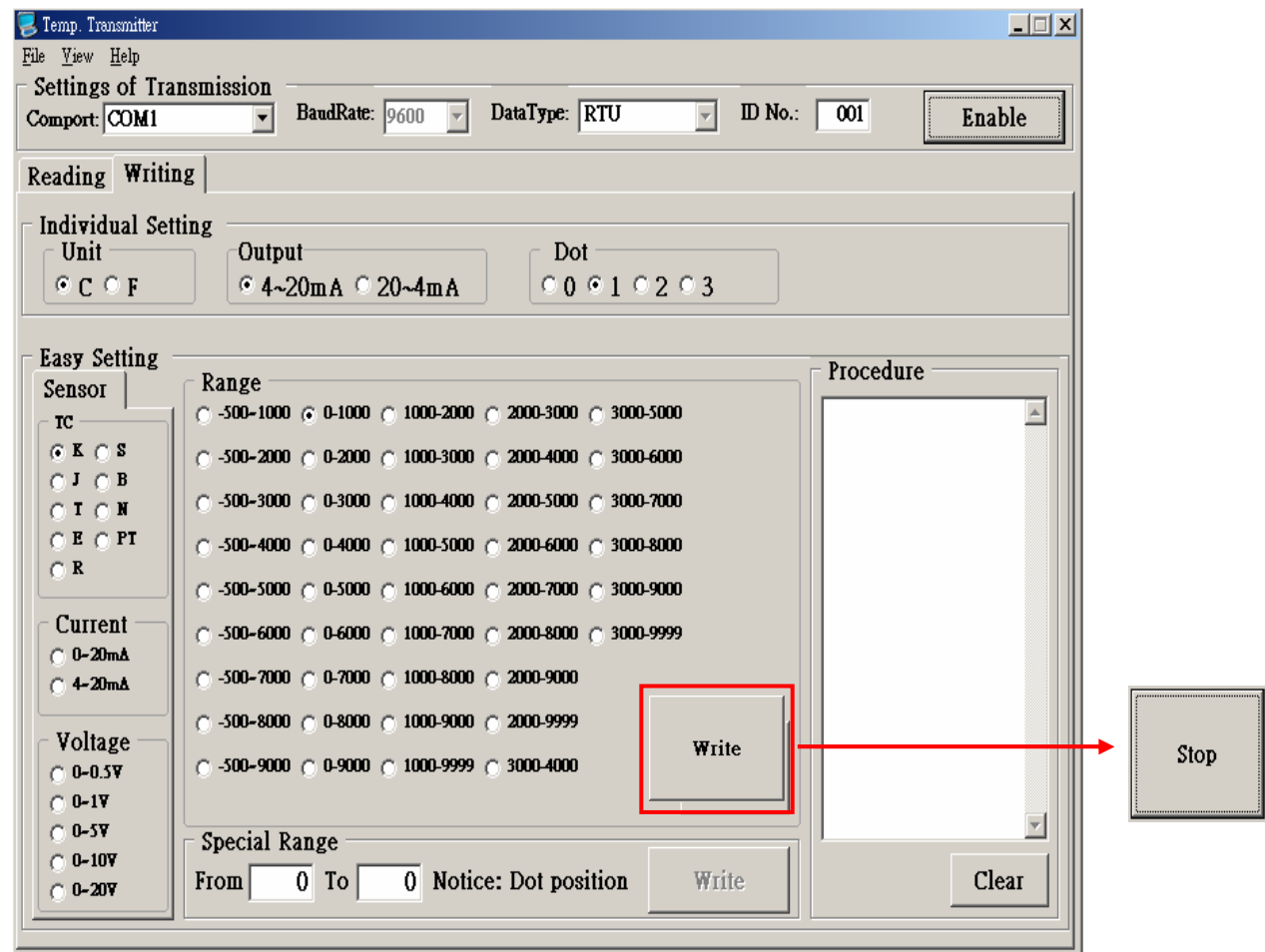
This “Writing”:

It will use “Click” to set the following values of Unit/Output/Dot/Sens Or(TC/Current/Voltage)/Range

When the button is clicked, the button change “Write” to “Stop”

After finish, the button ”Stop” will change to “Write”

The procedure of transmission will show in the right side of Application



Using Software : Check after writing

**This “Writing”:
It just set the
temperature of
“Spec. Range”
When the button is
clicked, the button
change “Write” to
“Stop”
After finish, the
button ”Stop” will
change to “Write”
The procedure of
transmission will
show in the right
side of Application**

The screenshot shows the 'Temp. Transmitter' software window. The 'Settings of Transmission' section at the top includes 'Comport: COM1', 'BaudRate: 9600', 'DataType: RTU', and 'ID No.: 001'. Below this, the 'Writing' tab is active, showing 'Individual Setting' for 'Unit' (C/F), 'Output' (4~20mA/20~4mA), and 'Dot' (0/1/2/3). The 'Easy Setting' section on the left has 'Sensor' (TC) and 'Current' (0-20mA/4-20mA) options. The main area displays a grid of 'Range' settings (e.g., -500~1000, 0~1000, etc.). A 'Write' button is visible next to the range settings. At the bottom, the 'Special Range' section has 'From' and 'To' fields (both set to 0) and a 'Notice: Dot position' label. A red box highlights the 'Write' button in this section, with a red arrow pointing to a 'Stop' button outside the main window frame.