

Transmitter transfer curve modify Procedure

## Outline

- Software Installation Temperature transmitter 1.26
- USB⇔RS-485 device
  - Driver installation
- Wiring
- Using Software

## Software Installation Temperature transmitter 1.26

📥 TR TEST1.26						
File Edit View Favorites	Tools Help					
📙 🖨 Back 🔻 🔿 👻 🔂 🗌 🥘 Sea	arch 🕒 Folders	History	$ $ $\mathbb{C} \times \mathbb{C}$	Ω		
Address 🗀 TR TEST1.26						
TR TEST1.26	usb_driver	ius	opt	setup	zdata1.dsk	
<b>setup</b> Application						
Modified: 12/11/2007 10:04 PM						
Size: 212 KB						
Attributes: (normal)						





#### Click next button to continue install



Temperature transmitter Temperature transmitter Version 1.26		Tempera Ve	itue teannite: 1.26 Selop-existent emperature transm rsion 1.26	itter		
Frogen folder	Accept the name for the Program Folder or choose one from the first to add the entries to an exciting folder. Temperature transmitter 1.26 Existing Folders: ADE Tower's downloader V2.0 ADUC ADUC ADUC ADUC Auto Auto Auto Back Next Cangel		Sheri inski pomred b	Allation Setting Setting Direct Progr Pless	igs for installation are complete. Setup-assistant now nough information to start installation.	

## Software Installation



### Software install complete.



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

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



Found New Hardware Wizard	Found New Hardware Wizard
Locate Driver Files Where do you want Windows to search for driver files?	Driver Files Search Results The wizard has finished searching for driver files for your hardware device.
Found New Hardware Wizard       Insert the manufacturer's installation disk into the drive selected, and then click OK.         Cancel         Copy manufacturer's files from:         C:\usb_driver         Browse	The wizard found a driver for the following device: USB-Serial Controller D Windows found a driver for this device. To install the driver Windows found, click Next. c:\usb_driver\serwpl.inf
✓ Back Next > Cancel           Found New Hardware           WSB-Serial Controller D	✓ Back Next > Cancel           Found New Hardware           WSB-Serial Controller D
Installing	Installing

Found New Hardware Wizard



### Driver install complete : Prolific USB-to-Serial Bridge



Control Panel	
System Properties         Image: Comparison of the state of the	? ▼ orites Tools Help ③Search ← Folders ③History
Hardware Wizard The Hardware wizard helps you install, uninstall, repair, unplug, eject, and configure your hardware.	By Device Manager         Action       View         ↓ ← →       Image: Imag
Hardware Wizard  Device Manager  The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device.	Computer     Disk drives     Disk drives     Display adapters     DE ATA/ATAPI controllers     Computer     Mice and other pointing devices
Driver Signing         Device Manager           Hardware Profiles         Hardware profiles provide a way for you to set up and store	Monitors  Monitors  Ports (COM & LPT)  Communications Port (COM1)  Printer Port (LPT1)  Prolific USB-to-Serial Bridge (COM3)
Hardware Profiles	<ul> <li>E-</li></ul>
OK Cancel Apply	
Provides system infor	

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

Here COM3 is used in this demonstration.



## **Using Software**



Temperature transmitter 1.26 -> tr.exe

# Using Software

ile <u>V</u> iew <u>H</u> elp Settings of Transmissio Compost COM1	n	Fyne: RTU ID No.: 0	01 Enable
Reading Writing			Епаріс
Reading Setting			
Addres 0000	contiune 🗖 Datalog		Read
Read Procedure	- Display		
Version			
ScaleSCH			
ScaleSCL.			
ScaleDOT			
ScaleUnit			
ScaleOut			
T			
Input Sel			
Input Type			

## Using Software: com port setting

🛜 Temp. Transmitter	
File View Help	
Comport: COM1   BaudRate: 9600   DataType: RTU    ID No.: 001	Enable Select Comport & ID
COMI ReadingCOM2	
USB-COM4 Reading Setting	
Addres 0000 Contiune Datalog	Read
Read Procedure Display	
Version	
ScoleSCH	
ScaleSCL	
ScaleDOT	
ScaleUnit	
ScaleOut	
Input Sel	
Input Type	

### Using Software: com port setting

Settings of Transmission Comport COMI  BaudRate: 0000  DataType: RTU  D No.: 001 Enable Reading Writing Reading Setting Addres 0000  contiune Datalog Read Read Read Read Read Read Read Read Contiune Datalog Read	Z Temp. Transmitter				
Reading Writing   Reading Setting   Addres 0000   contiune   Datalog   Read     Re	Settings of Transmission — Comport: COM1    H	audRate: 9600 -	DataType: RTU	D No.: 001	Enable
Addres 0000 contiune Datalog Read   Read Procedure Display   Version ScaleSCH   ScaleSCL ScaleDOT   ScaleDOT ScaleUnit   ScaleOut Input Sel   Input Sel Input Type   Inside TM Input Sel	Reading Writing				
Read Procedure   Version     ScaleSCH   ScaleSCL   ScaleDOT   ScaleDOT   ScaleOut   Input Sel   Input Type   Inside TM	Addres 0000 C conti	iune 🗆 Datalog			Read
Version ScaleSCH ScaleDOT ScaleUnit ScaleOut Input Se Inside TM	Read Procedure	Display			
ScaleSCH   ScaleSCL   ScaleDOT   ScaleUnit   ScaleOut   Input Sel   Inside TM	Version				
ScaleSCI   ScaleDOT   ScaleUnit   ScaleOut   Input Sel   Inside TM	ScaleSCH				
ScaleDoT   ScaleUnit   ScaleOut   Input Sel   Input Type   Inside TM	ScaleSCL				
ScaleUnit ScaleOut Input Sel Inside TM	ScaleDOT				
ScaleOut   ScaleOut   Input Sel   Inside TM	S-1-IL-it				
ScaleOut   Input Sel   Input Type   Inside TM					
Input Sel	ScaleOut				
Input Type Inside TM	Input Sel				
Inside TM	Input Type				
	Inside TM				

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

통 Temp. Transmitter				
<u>File V</u> iew <u>H</u> elp				
Settings of Transmission	BandRate: 0600	DataTyne: DTH		Enchlo
	Buuli u. 19000	KIO		Enable
Reading Writing				
Reading Setting	$\overline{}$			
Addres 0000 ( 🔽 co	ontiune 🔵 🗆 Datalog			Read
Read Procedure	D' 1			
Vauriau	Display			
version				
ScaleSCH				
ScaleSCL				
SI-DOT				
scaleDOI				
ScaleUnit				
ScaleOut				
Turnet Sol				
mput Ser				
Input Type				
Inside TM			$\square$	
P				

### Click "continue" to checked(Pic A):

continuous to read the values of Read Procedure, otherwise it just one shot.

### Using Software: Read operation

								_					1-1-1
Temp. Trans	smitter	-	-	-	-								_ <u> </u>
<u>File View H</u>	of Tranc	minoior											
Comport: C	OM1	ышаатот •	Baud	Rate: 96	00 🔻	DataTy	pe: RTU	J	- II	) No.:	001	Enabl	e
			-										
Reading	Writing	:											
Reading	Setting			1		<u> </u>							1
Addres	0000		contiun	e 🕻 🗹 🛛	Datalog	:)						Read	
Read Pr	Datalog											l	×
Versio			ĝ.	રે 🤍		•							
					Tem	perat	ure Tr	ansm	itter				
ScaleSCI												💻 Displau Value	
SeelesCl												<ul> <li>InSide Temp.</li> </ul>	
oraneor)													
ScaleDO'	80 -												
ScaleUni	c0 _												
	- 00												
ScaleOu	-												
Innut Se	40 -												
mput St	40												
Input Typ													
	20 -												
Inside TA													
	·												
		0 1		20 3	0 4	0 5	т – 50 _ Е		70 _ 8	1 · ·	10 11	1 30	

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

### **Using Software :** Parameters Description

- VerCode :
- ScalSch :
- ScalScl :
- ScalDot :
- ScalUnit :
- ScalOut :
- InpType :
- InpSelect :
- DisplayValue:

Firmware version Upper scale setting Lower scale setting Decimal point setting **C**, **F** 4-20mA, 20-4mA TC/RTD/DC/mA (fixed) Sensor Type/Range (fixed) **Reading Value** INSIDE TM\_VALUE: Instrument temperature

## Using Software :

### Object: $0 \sim 900^{\circ}$ C transfer to $4 \sim 20$ mA

	😕 Temp. Transmitter
•	File View Help Settings of Transmission Compart COM1 BaudRate: 9600 V DataType: RTU V DNo.: 001 Frable
Unit : C	Reading Writing     Change to "Writing". Click the lable
Out: 4-20	Individual Setting Unit Output Dot
Dot: Dot1	○ C ○ F         ○ 4~20mA ○ 20~4mA         ○ 0 ○ 1 ○ 2 ○ 3
SCH : 100	Easy Setting Sensor Range Procedure Procedure
SCL:0	IC         IC <thic< th="">         IC         IC         IC&lt;</thic<>
Write	C T C N         C -500-3000 C 0-3000 C 1000-4000 C 2000-5000 C 3000-7000           C E C PT         C -500-4000 C 0-4000 C 1000-5000 C 2000-6000 C 3000-8000           C R         C -500-5000 C 0-5000 C 1000-6000 C 2000-7000 C 3000-9000
Enter and Choose desired setting and Click Write button to save parameters into	Current       0 -500-6000 0 0-6000 0 1000-7000 0 2000-8000 0 3000-9999         0 -20mA       0 -500-7000 0 0-7000 0 1000-8000 0 2000-9000         0 -20mA       0 -500-7000 0 0-7000 0 2000-9000         0 -500-8000 0 0-8000 0 1000-9000 0 2000-9999       0 -500-8000 0 0-8000 0 1000-9999         0 -0.5V       0 -500-9000 0 0-9000 0 1000-9999 0 3000-4000         Write       Special Range         C 0-20V       From 0 To 0 Notice: Dot position

### 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

z Temp. Transmitter		
<u>File Yiew H</u> elp		
Settings of Transmission		
Comport: COM1 V BaudRate: 9600 V DataType: RTU V ID No.:	001 Enable	
	<u></u>	
Reading Writing		
Individual Cotting		
Individual setting		
Lasy Setting	Ргосеdите	
Sensoi Kange		
⊙ K ⊖ S         ○ -500-2000 ⊂ 0-2000 ⊂ 1000-3000 ⊂ 2000-4000 ⊂ 3000-6000		
C P C -500-4000 C 0-4000 C 1000-5000 C 2000-6000 C 3000-8000		
C -500-5000 C 0-5000 C 1000-6000 C 2000-7000 C 3000-9000		
C 0-20mA		
C 4-20mA C -500-7000 C 0-7000 C 1000-8000 C 2000-9000		
C500-8000_C_0.8000_C_1000-9000_C_2000-9999		
Voltage		
C 0-0.5▼ C -500-9000 C 0-9000 C 1000-9999 C 3000-4000 Write		
C 0-1¥		
C 0-SV Special Range		·
C 0-107	Class	Ston
C 0-20V FIOM U 10 U NOUCE: DOI DOSIDON WITE	Lical	