DTA		DTB		DTC	
Model: DTA4896R1		Model: DTB4896RR		Model: DTC1000R	
PV	SV	PV	SV	PV	SV
bPS	9600	CoSH	oFF	Adjust temperature	
				Input compensation	0.0
Len	7	C-SL	ASCII	Password of DTC	
				Level 1 password	Disabled
Prty	EvEn	C-no	1	Level 2 password	Disabled
				Level 3 password	Disabled
StoP	1	bPS	9600		
Back to top					
		Len	7		
		Prty	EvEn		
		StoP	1		
		Back to top			

1.2 How to Return to Default Settings in DTA

Manual

Display		Explanations
PV	SV	Status of the temperature controller
Cnct	r 1	Temporary display when DTA is switched on: r 1 = relay output with RS-485 communication.
25.0	0.0	Example displayed values
		Press twice
LoC	oFF	Key-locked function
LoC	LoC 1	Select Lock 1
SET		
+		Press “up” and “down” keys together for 1 second.
CoLd	276	Default value

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Display		Explanations
PV	SV	Status of the temperature controller
tCUU	-136	Default value
PASS	4321	
PASS	1357	Press “down” key continuously until the value reaches 1357 (please DO NOT modify this value; otherwise system confusion may occur).
SET		
PASS	4321	
SET +		Press the two keys together once to return to main screen.
25.0	0.0	Main screen
Switch off DTA and re-power it.		
CnCt	r1	
no	Cont	Return to default value. The default sensor is PT100, which will be displayed when DTA is not connected to a sensor or thermocouple.

The model adopted in this example is: DTA4896R1 with firmware V3.50.

Communication

1. Make sure RS-485 hardware communication cable in DTA has been connected to the computer.
2. Make sure the communication parameters in DTA are consistent with those in the computer.

Display		Explanations
PV	SV	Status of the temperature controller
25.0	0.0	Example displayed values
Press SET for more than 3 seconds to enter initial setting mode		
CnPt	Pt2	Example displayed value: PT100 Sensor
Press continuously for 8 times		
CoSH	oFF	ON/OFF of communication write-in
CoSH	on	OFF: communication write-in disabled ON: communication write-in enabled

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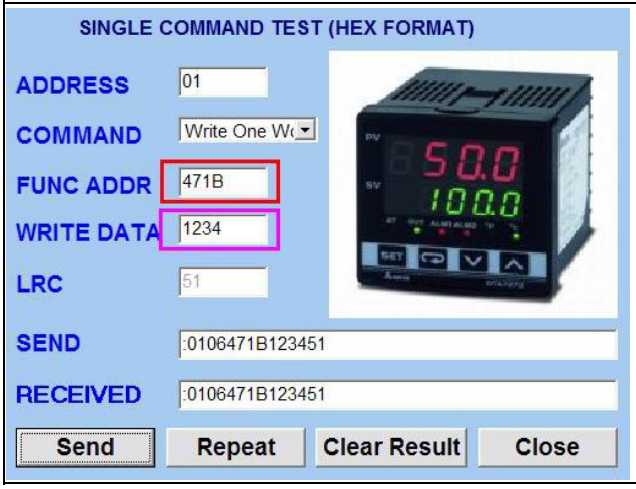
Display		Explanations
PV	SV	Status of the temperature controller
SBT		
C-no	1	Communication address
↩		
bPS	9600	Communication speed
↩		
LEn	7	Data length (in bits)
↩		
Prty	EvEn	Parity bit
↩		
StoP	1	Stop bit
↩ Back to top		Return to the first item in the initial setting mode: InPt
SBT		Return to PV/SV screen in the operation mode

DTCOM Software	Explanations
DELTA DTCOM	Execute DTCOM Software
	Select “SINGLE COMMAND TEST”
	Function address = 471B; Write data =1234. (Please DO NOT modify this value; otherwise system confusion may occur.)

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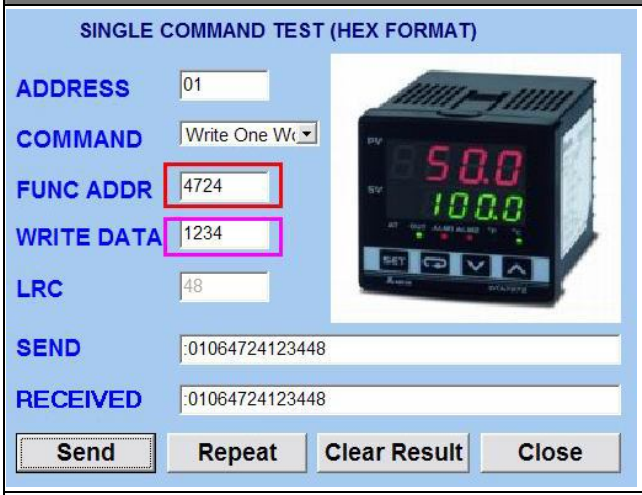
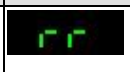
DTCOM Software	Explanations
	Clear the user's settings. Function address = 4724; Write data = 1234 (Please DO NOT modify this value; otherwise system confusion may occur.)
	After the above procedures are completed, DTA will display the information on the left hand side, representing that DTA has return to default settings successfully.
Switch off DTA and re-power it.	
	Return to default value. The default sensor is PT100, which will be displayed when DTA is not connected to a sensor or thermocouple.

The model adopted in this example is: DTA4896R1 with firmware V3.50.

1.3 How to Return to Default Settings in DTB

Display		Explanations
PV	SV	Status of the temperature controller
		Temporary display when DTB is switched on: = firmware V1.50; = relay output for OUT1/OUT2
		Example displayed value
		Press for 3 times
		Key-locked function
		Select Lock 1
		Press "up" and "down" key together for 1 second.

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Display		Explanations
PV	SV	Status of the temperature controller
SHou	oFF	
↩		
PASS	4321	
∨		
PASS	1357	Press “down” key continuously until the value reaches 1357 (please DO NOT modify this value; otherwise system confusion may occur).
SET		
SHou	oFF	
SET + ↩		Press the two keys together once to return to main screen.
25.0	0.0	Main screen
Switch off DTB and re-power it.		
b.150	rr	
no	Cont	Return to default value. The default sensor is PT100, which will be displayed when DTB is not connected to a sensor or thermocouple.

The model adopted in this example is: DTB4896RR with firmware V1.50.

Communication

1. Make sure RS-485 hardware communication cable in DTB has been connected to the computer.
2. Make sure the communication parameters in DTB are consistent with those in the computer.

Display		Explanations
PV	SV	Status of the temperature controller
25.0	0.0	Example displayed value
Press SET for more than 3 seconds to enter initial setting mode		
InPt	Pt	Example displayed value: PT100 Sensor
Press ↩ continuously for 10 times		
CoSH	oFF	ON/OFF of communication write-in
∧		

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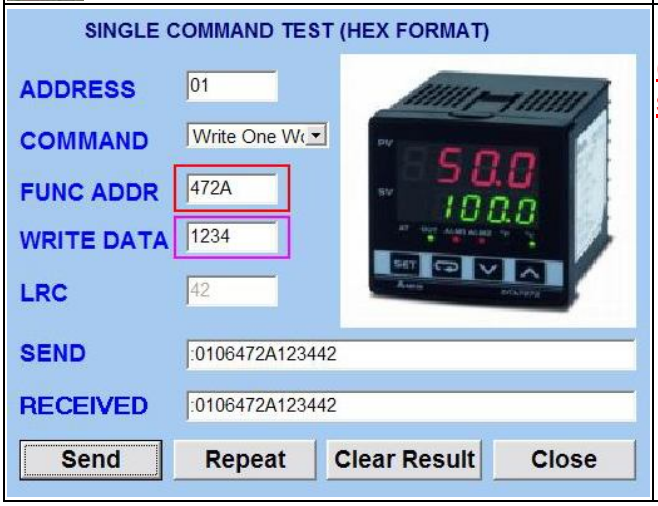
Display		Explanations
PV	SV	Status of the temperature controller
CoSH	on	OFF: communication write-in disabled ON: communication write-in enabled
SET		
C-SL	ASCII	ASCII or RTU
↩		
C-no	1	Communication address
↩		
bPS	9600	Communication speed
↩		
LEn	7	Data length (in bits)
↩		
Prty	EuEn	Parity bit
↩		
Stop	1	Stop bit
↩ back to top		Return to the first item in the initial setting mode: InPt
SET		Return to PV/SV screen in the operation mode

DTCOM Software	Explanations
DELTA DTCOM	Execute DTCOM Software
	Select “SINGLE COMMAND TEST”
	Function address = 472A; Write data =1234 (Please DO NOT modify this value; otherwise system confusion may occur.)

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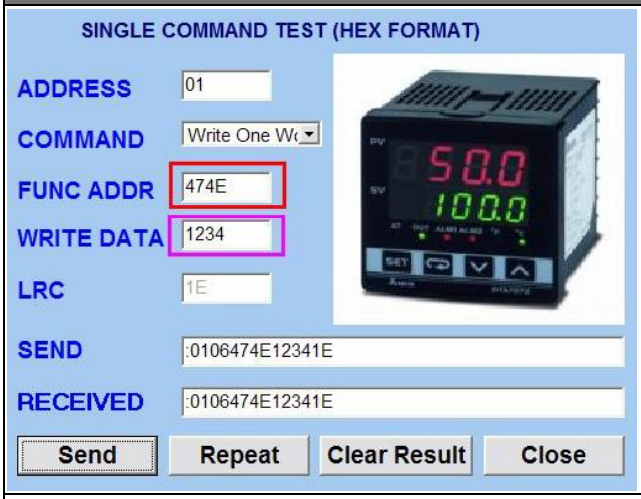
DTCOM Software	Explanations
	Clear the user's settings. Function address = 474E; Write data = 1234 (Please DO NOT modify this value; otherwise system confusion may occur.)
	After the above procedures are completed, DTB will display the information on the left hand side, representing that DTB has return to default settings successfully.
Switch off DTB and re-power it.	
	Return to default value. The default sensor is PT100, which will be displayed when DTC is not connected to a sensor or thermocouple.

The model adopted in this example is: DTB4896RR with firmware V1.50.

1.4 How to Return to Default Settings in DTC

1. Make sure RS-485 hardware communication cable in DTC has been connected to the computer.
2. Make sure the communication parameters in DTC are consistent with those in the computer.

DTCOM Software	Explanations
	Execute DTCOM Software
	Select "SINGLE COMMAND TEST"

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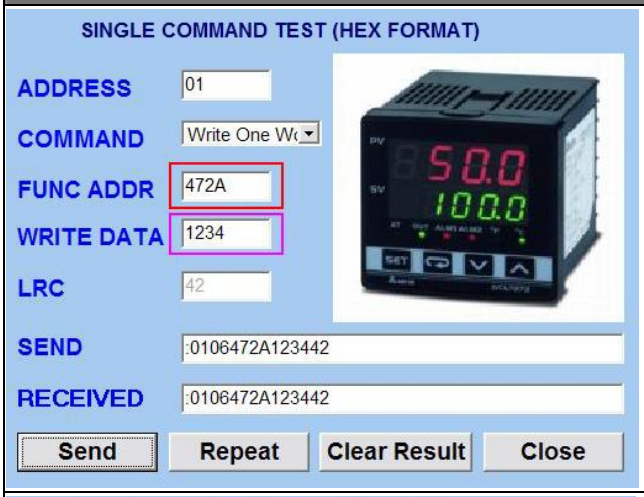
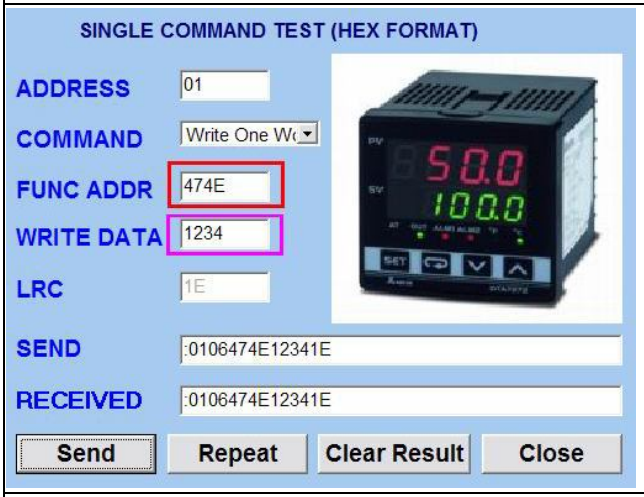
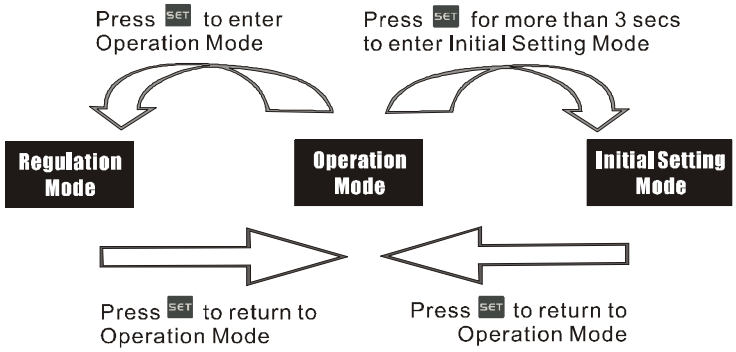
DTCOM Software	Explanations
	Function address = 472A; Write data = 1234 (Please DO NOT modify this value; otherwise system confusion may occur.)
	Clear the user's settings. Function address = 474E; Write data = 1234 (Please DO NOT modify this value; otherwise system confusion may occur.)
Switch off DTC and re-power it.	Return to default settings

The model adopted in this example is: DTC1000R with firmware V1.40.

CHAPTER 2: CONTROL MODES IN DTA

2.1 ON/OFF

There are three control modes in DTA: ON/OFF, MANUAL and PID. First, press SET for 3 seconds to enter the "initial setting" mode. See below for how to switch between each mode:



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