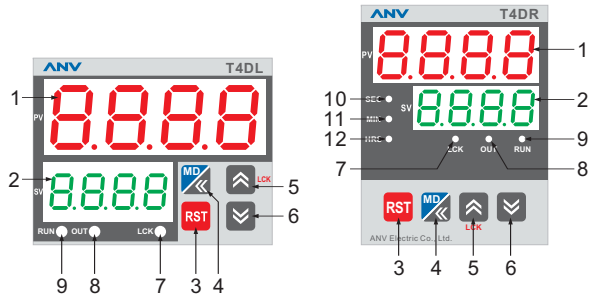


MULTI-FUNCTION DIGITAL TIMER

MANUAL

T4DL T4DR

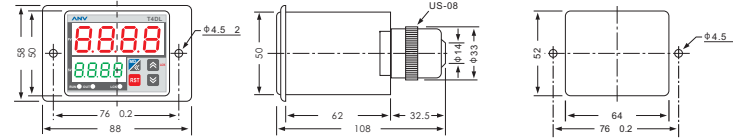
FRONT PART



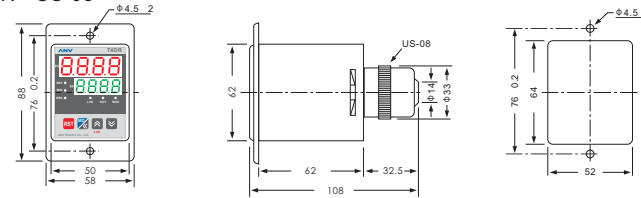
SYMBOL	NAME	FUNCTION
1	PV	Present Value
2	SV	Set Value
3	RST	Reset Key / Set Key
4	MD	Mode Key / Left Key
5	UP	Select Key / Increase Key / Lock Key
6	DOWN	Select Key / Decrease Key
7	LCK	Lock Key Lamp
8	OUT	Indicator Operation
9	RUN	Timing Indicator
10	SEC	SEC Indicator Lamp
11	MIN	MIN Indicator Lamp
12	HRS	HRS Indicator Lamp

DIMENSIONS

T4DL + US-08



T4DR + US-08



SPECIFICATIONS & CHARACTERISTICS

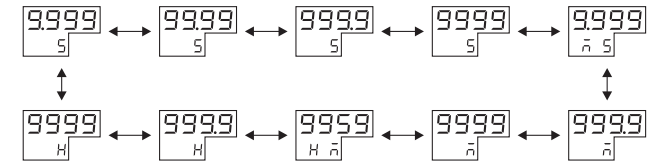
Model		T4DR-N/Y T4DL	T4DR-NX/YX T4DL-X	T4DR-NT/YT T4DL-T	T4DR-NG/YG T4DL-G	T4DR-NP/YP T4DL-P
CONTROL OUTPUT		2C or 1A1C	Time limit: 1C 1+4 Gate 1+3 Reset	Time limit: 1C 1+4 Start 1+3 Reset	Time limit: 1C 1+4 Start 1+3 Gate	Time limit: 1C 1+4 Reset 1+3 12VDC
DIMENSION (mm)		Surface: 81H X 50W X 78D, Flush: 88H X 58W X 78D				
RATED VOLTAGE		12~60VDC/AC, 100~240VAC 50/60Hz				
OPERATING VOLTAGE		90 ~ 110 % of rated voltage				
CONTACT CAPACITY		NO: 5A 250VAC resistive load, NC:5A 250VAC resistive load				
MOUNTING & SOCKET		Surface: 8PFA, Flush: US-08 or P3G-08				
INDICATOR OPERATING		Time up indication				
RESET METHOD		Power reset , External reset				
RESET TIME		Power reset : 0.3sec, External reset : 0.02sec				
A C C U R A C Y	REPEAT ERROR	Power ON start : 0.05% 0.1sec Signal start : 0.01% 0.05sec				
	SETTING ERROR					
	VOLTAGE ERROR					
	TEMPERA- TURE ERROR					
L I F E	MECHANICAL	5 X 10 ⁶ times				
	ELECTRICAL	10 ⁵ times				
CONSUMED POWER		Max. 3VA	Max. 2VA			
AMBIENT TEMPERATURE		-10℃~+55℃				
AMBIENT HUMIDITY		45~85%RH				
WEIGHT		Approx. 150g	Approx. 140g			

CHANGE OF SETTING VALUE

Setting without pressing any key over 10 seconds will automatically save and return to RUN mode.

TIME RANGE

Press **MD** key 3 seconds into the time function mode.

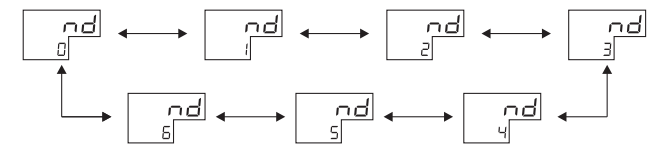


Time range	SV Display	PV Display	Time range	SV Display	PV Display
0.001s~9.999s	S	9999	0.1m~999.9m	m	9999
0.01s~99.99s	S	9999	1m~9999m	m	9999
0.1s~999.9s	S	9999	1m~99h59m	H m	9999
1s~9999s	S	9999	0.1h~999.9h	H	9999
1s~99m59s	m S	9959	1h~9999h	H	9999

Press **MD** key save the settings and change to TIMING mode or press **RST** key save the settings and return to RUN mode.

TIMING MODE

Press **MD** or **MD** Cyclic selection. Detailed functional see timing charts.

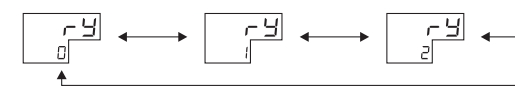


nd/0=Power on timing,Relay output when the PV value equal to SV value.
nd/1=Long trigger timing.
nd/2=Short trigger timing.
nd/3=Long trigger timing,after release trigger button will be reset.
nd/4=Long trigger timing,timing or time up release trigger button will be reset.
nd/5=Release the trigger button start timer.
nd/6=Press or release trigger button both timing.

Press **MD** key save the settings and change to RELAY OUTPUT mode or press **RST** key save the settings and return to RUN mode.

RELAY OUTPUT MODE

Press **MD** or **MD** Cyclic selection.



ry/0=Positive action. (NC→NO)
ry/1=Reverse action. (NO→NC)
ry/2=Trigger action. (NC→NO→NC) (at nd/0 mode is invalid.)

Press **MD** key save the settings and change to UP/DOWN mode or press **RST** key save the settings and return to RUN mode.

UP / DOWN MODE

Press **MD** or **MD** Cyclic selection.

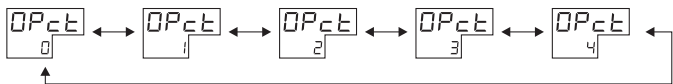


ud/up=Increase timing.
ud/do=Decrease timing.

Press **MD** key save the settings and change to OUTPUT CONTROL mode or press **RST** key save the settings and return RUN mode.

OUTPUT CONTROL MODE

Press or Cyclic selection. Detailed functional see timing charts.



- Opct/0=Time up RELAY output. PV value = SV value.
- Opct/1=Time up RELAY output. Wait for reset delay time up then RELAY release, PV value is returned to the initial value.
- Opct/2=Time up RELAY output. Wait for reset delay time up then RELAY release, PV value is returned to the initial value and restart timing. GATE is available.
- Opct/3=Time up RELAY output and PV value is returned to the initial value. Wait for reset delay time up then RELAY release and restart timing. GATE is available.
- Opct/4=Time up RELAY output and restart timing, time up RELAY release and restart timing.

Press to enter RELAY delay time setting.

Press to change RELAY delay time digit.

Press to select digital 0~9.(Time range:0.1S~999.9S)

Press key save the settings and change to MEMORY mode or press key save the settings and return to RUN mode.

Note: Opct/1 is invalid, if use **nd/4** mode. Opct/2, Opct/3 is only valid in **nd/4** mode.

MEMORY MODE

Press or Cyclic selection.



- c/no=Without power failure memory function.
- c/ye=With power failure memory function.

Press key save the settings and change to CONTACT OUTPUT mode or press key save the settings and return to RUN mode.

CONTACT OUTPUT MODE

Press or Cyclic selection.



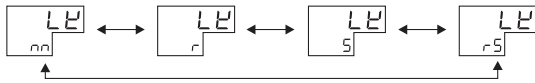
- ryAb/2c=Time relay:2
- ryAb/1c=Time relay:1, Instantaneous : 1

Press key save the settings and change to KEY LOCK mode or press key save the settings and return to RUN mode.

KEY LOCK MODE

Press or Cyclic selection.

The standby state hold down key 3 seconds to lock key or unlock.



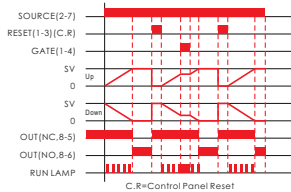
- LK/nn =No lock.
- LK/r =Lock the reset key.
- LK/S =Shift left key.
- LK/rS =Reset key and shift left key.

Press key save the settings and change to TIME RANGE mode or press key save the settings and return to RUN mode.

TIMING CHARTS

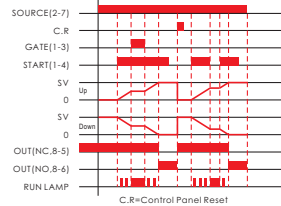
nd/0 + Opct/0

Power on timing,Relay output when the PV value equal to SV value.(Default)



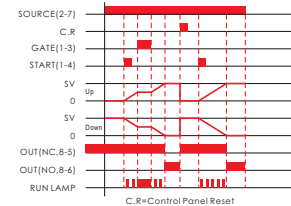
nd/1 + Opct/0

Long trigger timing.



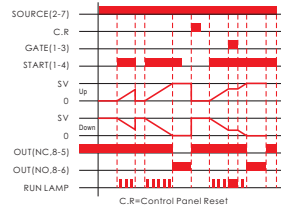
nd/2 + Opct/0

Short trigger timing.



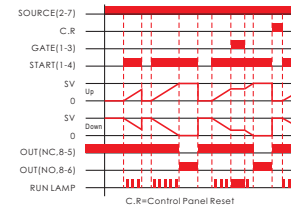
nd/3 + Opct/0

Long trigger timing,after release trigger button will be reset.



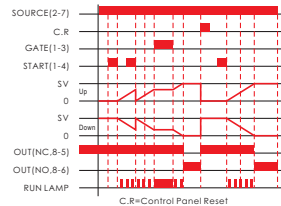
nd/4 + Opct/0

Long trigger timing,timing or time up release trigger button will be reset.



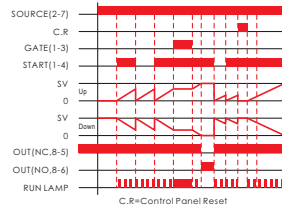
nd/5 + Opct/0

Release the trigger button start timing.



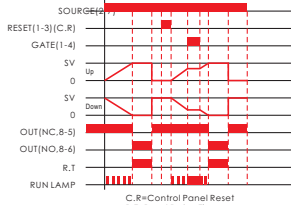
nd/6 + Opct/0

Press or release trigger button both restart timing.



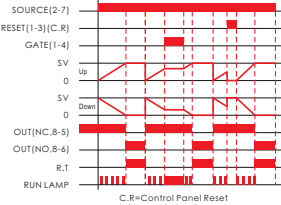
nd/0 + Opct/1

Power on timing,Time up RELAY output. Wait for reset delay time up then RELAY release, PV value is returned to the initial value.



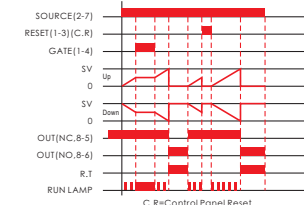
nd/0 + Opct/2

Power on timing,Time up RELAY output, Wait for reset delay time up then RELAY release, PV value is returned to the initial value and restart timing.



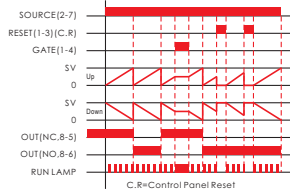
nd/0 + Opct/3

Power on timing,Time up RELAY output and PV value is returned to the initial value. Wait for reset delay time up then RELAY release and restart timing.



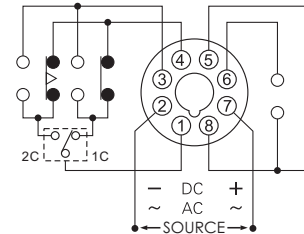
nd/0 + Opct/4

Flicker relay.

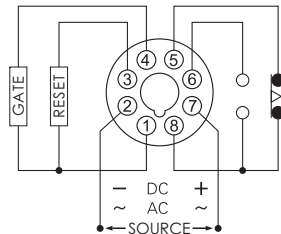


CONNECTION DIAGRAMS

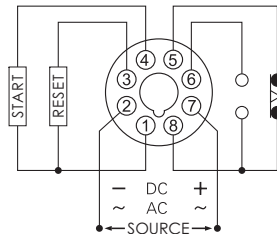
T4DR-N/Y
T4DL



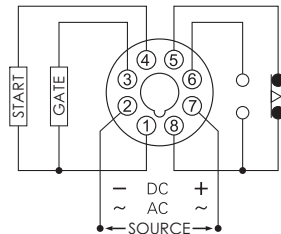
T4DR-NX/YX
T4DL-X



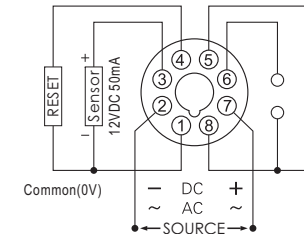
T4DR-NT/YT
T4DL-T



T4DR-NG/YG
T4DL-G



T4DR-NP/YP
T4DL-P



MAIN PRODUCTS

- TIME RELAY
- THERMOSTAT
- CONTROLLER
- SOLID STATE RELAY
- CLOSE SWITCH
- TEHRMOCOUPLE
- COUNTER
- LEVEL CONTROLLER
- LIMIT SWITCH
- THE BASE AND ACCESSORIES