



# H5CLR / ASY-4DR

## MULTI-FUNCTION DIGITAL TIMER

### User's Manual

**SAFETY PRECAUTION** This manual uses the following symbols to ensure safe operation of this timer.



**WARNING** Warnings are indicated when mishandling this product might result in death or serious injury to user.



**CAUTION** Cautions are indicated when mishandling this product might result in minor injury to the user, or only physical damage to the timer.

### WARNING

- Note this incorrect wiring of this product can damage it and lead to other hazards. Make sure the product has been correctly wired before turning the power ON.
- Before wiring, or removing / mounting the product, be sure to turn the power OFF. Failure to do so might cause electric shock.
- Do not touch electrically charged parts such as the power terminals. Doing so might cause electric shock.
- Do not disassemble the product. Doing so might cause electric shock or faulty operation.

### CAUTION

- Use the product within the operating ranges recommended in the specification (temperature, humidity, voltage, shock, mounting direction, atmosphere and etc.). Failure to do so might cause fire or faulty operation.
- Firmly tighten the wires to the socket. Insufficient tightening of the wires to the socket might cause fire.

### RESTRICTIONS ON USE

When using this product in applications that require particular safety or when using this product in important facilities, please pay attention to the safety of the overall system and equipment. Install fail-safe mechanisms, perform redundancy checks and periodic inspections and adopt other appropriate safety measures when it is necessary.

### SPECIFICATIONS

Operating voltage	AC/DC : 12~48V / AC/DC : 100~240V
Allowable operating voltage range	85 ~ 110% of rated operating voltage
Rated frequency	50 / 60Hz
Contact rating	250VAC 5A (Resistive load)
Reset time	MAX 0.1s
Power consumption	Approx. 2.5VA
Life	Mechanical : 5,000,000 times / Electrical : 100,000 times
Ambient temperature	-10~+50°C
Ambient humidity	MAX 85% RH
Weight	Approx. 120g(H5CLR) / 150g(ASY-4DR)

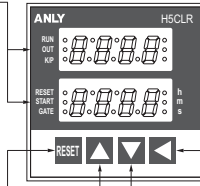
### NAMES AND FUNCTIONS OF FACEPLATE

#### LEDs

RUN: Timing indicator  
 OUT: Control output indicator  
 K/P: Key protection indicator  
 RESET: Reset indicator  
 START: Start indicator  
 GATE: Gate indicator  
 h: Time unit display (Hour)  
 m: Time unit display (Minute)  
 s: Time unit display (Second)

#### key

Reset the output or save the value of setting.(after save than back to the operation mode)



Upper display  
 Display PV values (current time, etc.) or setup items.

Lower display  
 Display SV values (set time, etc.) and other parameter values.

**▲ key** : Performing arithmetic shift operations and switches the display. Hold down for at least 3 seconds to enter setting modes.

**▲▼ key** : Used for incrementing or decrementing numeric values.

### SETTING PROCEDURE

POWER ON or **RESET** key

#### SPECIAL FUNCTION KEY



Switch ON / OFF Key protection



Switch to input setting mode

(1) Stop



or



(2) Timing

or



PRESS FOR 3s

#### TIME RANGE

Switch to input setting mode

Switch to input setting mode



Switch to count up/down setting mode

or



Save and back to the operation mode

1-1 9.999s 1-5 999.9m 1-9 99m59s  
 1-2 99.99s 1-6 9999m 1-A 99h59m  
 1-3 999.9s 1-7 999.9h  
 1-4 9999s 1-B 9999h

#### OUTPUT TIME



Switch to input signal time setting mode



or



Save and back to the operation mode

4-1 Hold 4-4 1s 4-7 15s  
 4-2 0.1s 4-5 5s 4-8 20s  
 4-3 0.5s 4-6 10s

※ Not functional on MODE C,D,E and F

#### INPUT SIGNAL TIME



Switch to key protection level setting mode



or



Save and back to the operation mode

5-1 20ms  
 5-2 1ms

※ Not available for ASY-4DR□ and H5CLR-8

#### KEY PROTECTION LEVEL



Switch to output contact setting mode



or



Save and back to the operation mode

6-1 Lock function key ▲  
 6-2 Lock reset key **RESET**  
 6-3 Lock preset value key ▲ + ▼  
 6-4 Lock all key

#### OUTPUT CONTACT



Switch to time range setting mode



or



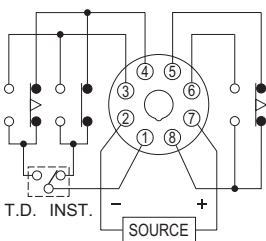
Save and back to the operation mode

7-1 2C  
 7-2 1A1C

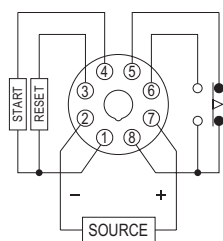
※ Available on H5CLR-8/-11 and ASY-4DR□ type only

### CONNECTION

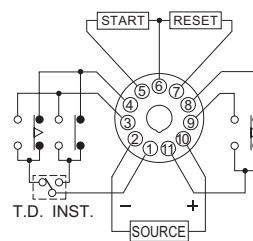
#### H5CLR-8 & ASY-4DR□



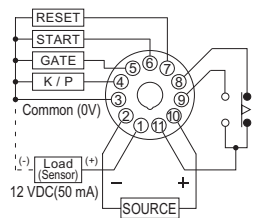
#### H5CLR-8G & ASY-4DRG□



#### H5CLR-11



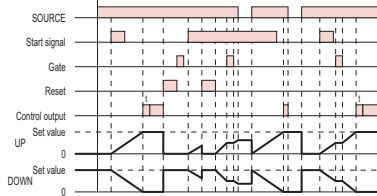
#### H5CLR-11M



Product is subject to change without notice.

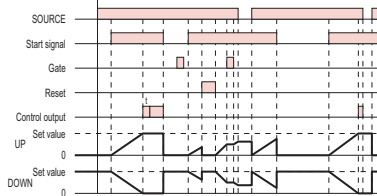
## TIMING CHART(Output mode)

**A : Signal ON delay 1** (Timer resets when power comes ON.)



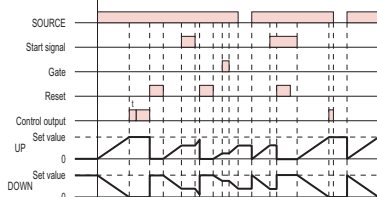
Timing starts when the start signal goes ON. \*Note1  
The control output is controlled using a sustained or one-shot time period.

**A-1 : Signal ON delay 2** (Timer resets when power comes ON.)



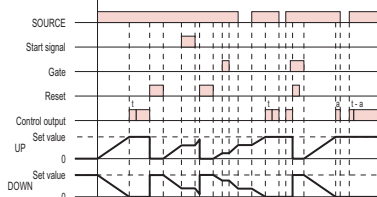
Timing starts when the start signal goes ON, and is reset when the start signal goes OFF. \*Note1  
The control output is controlled using a sustained or one-shot time period.

**A-2 : Power ON delay 1** (Timer resets when power comes ON.)



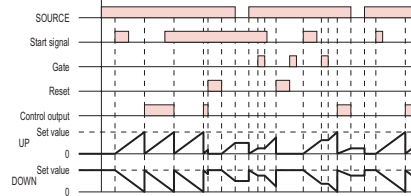
Timing starts when the reset input goes OFF.  
The start signal disables the timing function (ie., same function as the gate input).  
The control output is controlled using a sustained or one-shot time period.

**A-3 : Power ON delay 2** (Timer dose not reset when power comes ON.)



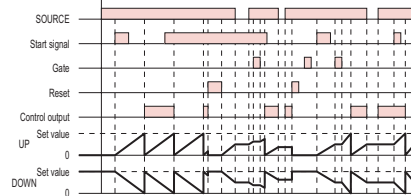
Timing starts when the reset input goes OFF.  
The start signal disables the timing function (ie., same function as the gate input).  
The control output is controlled using a sustained or one-shot time period.

**B : Repeat cycle 1** (Timer resets when power comes ON.)



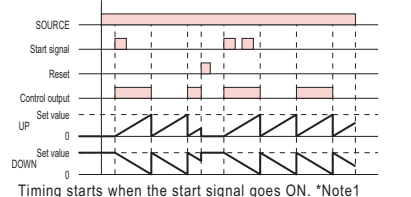
Timing starts when the start signal goes ON. \*Note1  
The status of the control output is reversed when time is up (OFF at start).

**B-1 : Repeat cycle 2** (Timer dose not reset when power comes ON.)



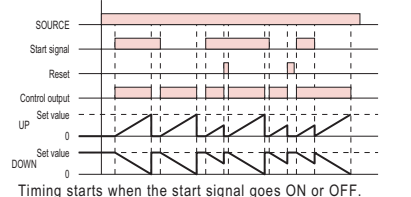
Timing starts when the start signal goes ON. \*Note1  
The status of the control output is reversed when time is up (OFF at start).

**B-2 : Repeat cycle ON start** (Timer resets when power comes ON.)



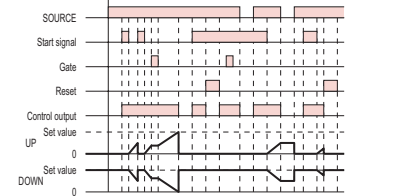
Timing starts when the start signal goes ON. \*Note1  
The status of the control output is reversed when time is up (OFF at start).

**C : Signal ON/OFF delay** (Timer resets when power comes ON.)



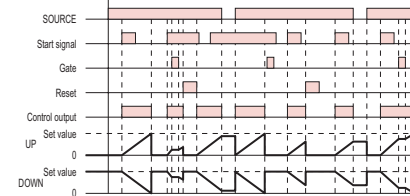
Timing starts when the start signal goes ON or OFF.  
The status of the control output is ON when the start signal goes ON or OFF.

**D : Signal OFF delay** (Timer resets when power comes ON.)



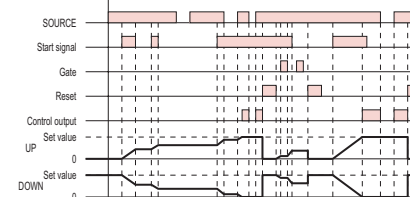
The control output is ON when the start signal is ON (except when the power is OFF or the reset is ON).  
The timer is reset when the time is up.

**E : Interval** (Timer resets when power comes ON.)



Timing starts when the start signal comes ON. \*Note1  
The control output is reset when time is up.

**F : Cumulative** (Timer does not reset when power comes ON.)

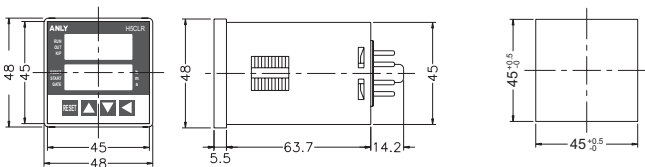


Start signal enables timing (timing is stopped when the start signal is OFF or when the power is OFF)  
A sustained control output is used.

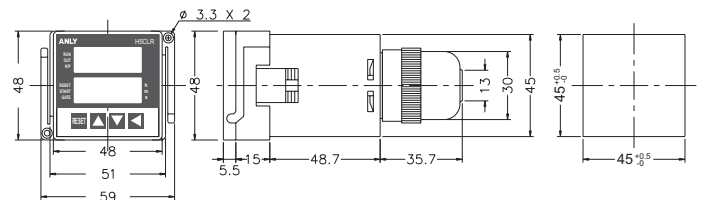
\*Note1. While the start signal is ON, the timer starts when power comes ON or when the reset input goes OFF.

## DIMENSION(mm)

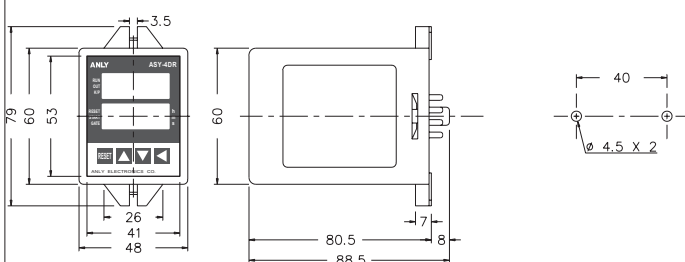
### H5CLR



### H5CLR + Y-50 + US-08



### ASY-4DRN / ASY-4DRGN



### ASY-4DRY / ASY-4DRGY + US-08

