

## HKD DIG DISP PROG TIMER 12V+CASE

### Features:

- Voltage: 12VDC
- Size: 63.6mm x 33.1mm
- Current: Standby  $\pm 12\text{mA}$ , working  $\pm 50\text{mA}$
- Load: Max. 250V 5A AC or below 28V 5A DC
- Power-down With power-down memory function
- Error: 0.01% /second
- Delay: 0-999 seconds
- Polarity protected
- High-level trigger, counting time is 0-999 seconds
- Product comes with input and output with optocoupler isolation



### Introduction:

Turn the power ON, 7-seg. display will light with the red power LED and relay blue LED OFF, trigger the termination to positive 12V. The display will activate the relay and the countdown will start, when zero is reached the relay will release and the display will show the time set to count again if the trigger is activated.

### Keys settings:

**K1:** Programming Mode: to enter this mode hold down K1 key for 2 sec. The current programming mode will display, e.g.: "P-1"

Change this Mode press K1 key to select next, 1 to 4.

**P-1:** Delay ON after trigger, counts down the delay period set.

Hold K1 for 2 sec. press k1 to scroll next to P-1. Press K2 to select time and press again 100th digit will blink. to change value press K3 to select digit or press K2 to select the 10th digit again for the unite digit, once last digit has been set press K2 again to exit. Mode Display will stop flashing and is ready to start the count down.

**P-2:** Delays OFF after trigger, then delays ON

Set Mode to P-2 by pressing K1 then press K2 to set time, press again the 100th digit will blink as above.

Press K2 at the end and the blue LED will light, set for the ON time. Press K2 to exit at end. Display will stop blinking and return to the OFF time set.

Test: trigger the timer, will start the OFF time count when zero will switch the relay ON and count the down time

**P-3:** Flip Frop Mode, contiuiace counts time Off and ON from Power UP.

set time as above.

**P-4:** Same as P-1 but is retriggerable. If trigger is high during the count down the timer will be reset and start the countdown again with out deactivating the relay.

**K2:** Each button press selects the next digit at unite digit mode will exit.

**K3:** Each button press selects the next numeric counting up. Also to set the timer count down in 1/10 sec, 1 sec. or 1 min.

Decimal point in unite position = minutes countdown with same decimal point blinking to show activity.

Decimal point in 10th position = 1/10 sec.

No decimal = second countdown.