

SAINT WIEN DIGITAL TIMER/COUNTER

TC49-

TYPE TC49-4M, 5M, 6M, 7M, 8M DIN Size 48x96mm

Microcomputer based Digital Timers & Counters

FEATURES

- *Incorporative an exclusive one-chip microcomputer
- *One unit with user programmable DIP SW inside for TIMER/COUNTER
- *In TIMER version, cover 8 different timer ranges cover 0.001S~9999999.9.H
- *In COUNTER version, cover 7 different counting versions.
- *EEPROM for power failure memory backup.
- *Counter has dual input for phase difference or command or gate or deduct .
- *Counter has reversible counting with x1 or x2 or x4 count of phase difference.
- *Up or Down counting speed 30 & 3K cps.
- *Outstanding noise immunity with Schmitt trigger circuit applied to all input terminals.
Software de-bouncing to 30 cps for SW or contact input.



TIMER/COUNTER SPECIFICATIONS PROGRAMMING DIP SW

DIP SW No	DESCRIPTION				
1	○=UP COUNT	●=DOWN COUNT FROM ZERO			
2	X	●=CP1 30 CPS ○=CP1 3K CPS			
3	X	●=CP2 30 CPS ○=CP2 3K CPS			
4	●	●			
5	○	○			
6	○	○			
7	7	8	9	TIMER RANGES	COUNTING VERSIONS
	○	○	●	9999H59M59S	CP1 COUNT INPUT, CP2 HIGH INHIBIT
8	○	●	○	999999M59S	CP2 COUNT INPUT, CP1 LOW INHIBIT
	○	●	●	999999H59M	U/D A, CP2 HIGH=DOWN, LOW=UP COUNT
9	○	○	○	999999.99S	U/D B, INDIVIDUAL INPUT, CP1=+, CP2=-
	●	○	○	99999.999S	U/D C, Phase input X1, 1 cycle 1 count
10	●	●	○	9999999.9M	U/D D, Phase input X2, 1 cycle 2 counts
	●	○	●	9999999.9H	U/D E, Phase input X4, 1 cycle 4 counts
11	○	○	○	99999999M	NOT USED
12	X	●=MINUS SIGN	○=BORROW		
13	○=Full display	●=LEADIND ZERO BLANK			
14	○=TIMER	●=COUNTER			

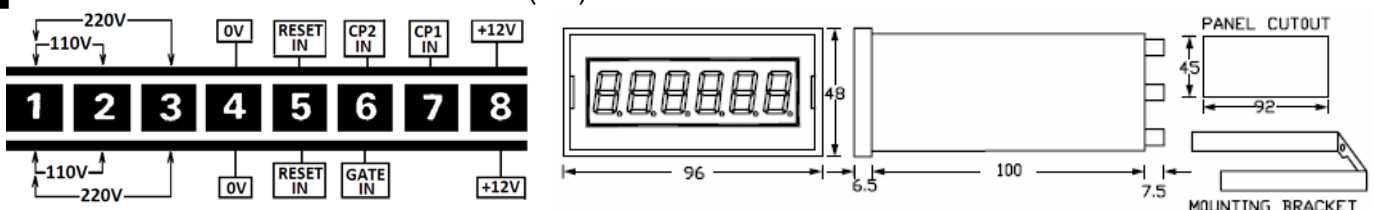
NOTES:

- 1 X is "don't care the position"
- 2 Standard crystal installed is 4.096MHz for both timer & Counter.
- 3 Please internally reset the unit while AC power on if DIP SW's position changed. Reset is on left hand side of LED PCB.
- 4 Remove panel lens to access DIP SW on PCB. Push out the hook on both side of LED PCB, then push rear terminal block to force PCB out. of housing.
- 5 Time chart please refer H7N-, H5N-
- 6 Decimal Point of unit digit is for minus sign. If display is [234.] means [-234].
- 7 ●= UP↑(0), ○= DOWN↓(1)

SPECIFICATIONS

- *Rated voltage: 110/220VAC 50/60Hz dual, power consumption about 5VA. Operating voltage: 85~115% of rated voltage.
- *LED display: 0.56" (0.39" for 7 & 8 digits)
- *Reset & CP1, CP2 (Gate) inputs: 4.7Kohm H=6~30VDC, L=0~0.2VDC or using contact/SW connect 12VDC to input.
- *Reset system: External (software) reset, reset time 0.005S following counting or timing.
- *Power source for external sensor power supply: 12VDC+-10%, 50mA

CONNECTION DIAGRAM & DIMENSIONS (mm)



ORDERING INFORMATIONS

TC49-6M.....-6M=6 digits with memory(M) for power failure backup. -6=6 digits without memory backup.
!.....TC49-=Both for TIMER/COUNTER.