

Market Leading Digital Timer

Compact, Easy to Read and Use

A digital timer made to meet the market's needs! This top of the line multi-function, multi-range timer has 8 selectable operating modes. Available with pin or screw terminals, it has a 2-color backlit LCD display, waterproof front panel, four signal inputs, and relay or solid-state outputs.

Key Features

- Screw Terminal and Pin Type are both Standard
- · Changeable Panel Cover
- Conforms with EMC and Low Voltage Directives
- EE-PROM Power Failure Memory
- . Bright and Easy to Read Display
- Simple Operation Seesaw buttons make setting and operation easy
- Short Body of only 64.5 mm (2.54 in) or 70.1 mm (2.76 in)
- Conforms to IP66's Weather Resistance Standards

LT4H Models

You may sort models by clicking the arrows in the appropriate column. If you are searching for a particular model but can't find it, give our model search utility a try. All downloads have moved to our separate downloads center.

Click one of the links below to view all related models. Models will appear below the links.

- Timers
- Accessories

Currently viewing: LT4H Timers

Model Name	Operation Mode	Time Range	Terminal Type	Output Current/ voltage	Mounting Method	Mounting Parts	Operating Voltage	Min. Power Off Time (ms)
Sort 🔺 🔻	Sort 🔺 🔻	Sort 🔺 🔻	Sort 🔺 🔻	Sort 🔺 🔻	Sort 🔺 🔻	Sort 🔺 🔻	Sort 🔺 🔻	Sort 🔺 🔻
LT48W-T- DC12V	7 Modes (ON- OFF-POWER- PULSE-SIGNAL- FLICKER- TOTALIZING)	0.001 s to 9999h (11 selectable ranges)	8 pins / Transistor output	100 mA / 30 V DC	Flush mount / DIN rail - adapter-	Terminal block, cap block, mounting frame, fitting scokets, protective cover	12 V DC	500
LT4H8-AC240V	8 Modes(ON- OFF-POWER- PULSE-SIGNAL- FLICKER- TOTALIZING)	0.001 s to 999.9 h switchable	8 pins / Relay output	5 A / 250 V AC	Flush mount / DIN rail - adapter-	Terminal block, cap block, mounting frame, fitting scokets, protective cover	100 to 240 V AC	500
LT4H-AC240V	8 Modes(ON- OFF-POWER- PULSE-SIGNAL- FLICKER- TOTALIZING)	0.001 s to 999.9 h switchable	11 pins / Relay output	5 A / 250 V AC	Flush mount / DIN rail - adapter-	Terminal block, cap block, mounting frame, fitting scokets, protective cover	100 to 240 V AC	500
LT4H-AC240VS	8 Modes(ON- OFF-POWER- PULSE-SIGNAL- FLICKER- TOTALIZING)	0.001 s to 999.9 h switchable	Screw terminal / Relay output	5 A / 250 V AC	Flush mount / DIN rail - adapter-	Terminal block, cap block, mounting frame, fitting scokets, protective cover	100 to 240 V AC	500
LT4H-AC24V	8 Modes(ON- OFF-POWER- PULSE-SIGNAL- FLICKER- TOTALIZING)	0.001 s to 999.9 h switchable	11 pins / Relay output	5 A / 250 V AC	Flush mount / DIN rail - adapter-	Terminal block, cap block, mounting frame, fitting scokets, protective cover	24 V AC	500
LT4H-DC24V	8 Modes(ON- OFF-POWER- PULSE-SIGNAL- FLICKER- TOTALIZING)	0.001 s to 999.9 h switchable	11 pins / Relay output	5 A / 250 V AC	Flush mount / DIN rail - adapter-	Terminal block, cap block, mounting frame, fitting scokets, protective cover	24 V DC	500

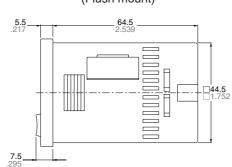
Control

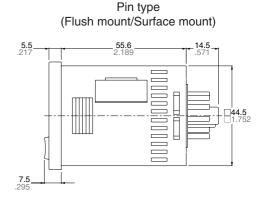
Dimensions

• LT4H digital timer

(units: mm inch) Tolerance: $\pm 1.0 \pm .039$

Screw terminal type (Flush mount)

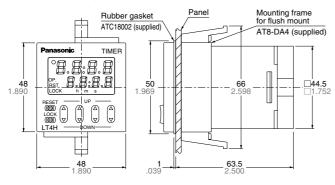


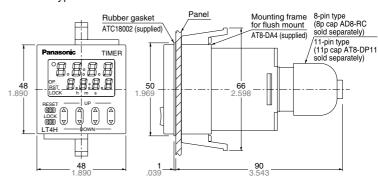


• Dimensions for embedded installation (with adapter installed)

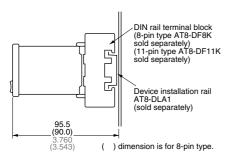
Screw terminal type

Pin type



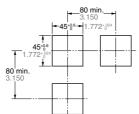


• Dimensions for front panel installations

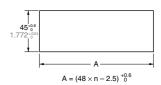


• Installation panel cut-out dimensions

The standard panel cut-out dimensions are shown below. Use the mounting frame (AT8-DA4) and rubber gasket (ATC18002).



• For connected installations



- Note) 1: The installation panel thickness should be between 1 and 5 mm .039 and .197 inch.
 - 2: For connected installations, the waterproofing ability between the unit and installation panel is lost.

Terminal layouts and Wiring diagrams

N.C

• 8-pin type

Relay output type

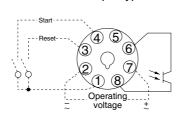
4 5

(1) (8)

Operating ____

6

 $\widehat{7}$

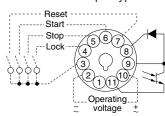


Transistor output type

• 11-pin type

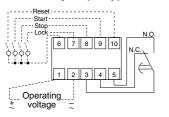
Relay output type

Transistor output type

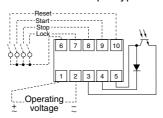


Screw terminal type

Relay output type



Transistor output type



Note) For connecting the output leads of the transistor output type, refer to 5) Transistor output on page 48.

(units: mm inch) Tolerance: ±1.0 ±.039

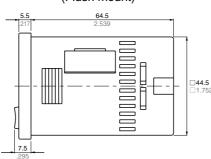
Applicable standard

Safety standard	EN61812-1	Pollution Degree 2/Overvoltage Category II			
	(EMI)EN61000-6-4				
	Radiation interference electric field strength	EN55011 Group1 ClassA			
	Noise terminal voltage	EN55011 Group1 ClassA			
	(EMS)EN61000-6-2	'			
	Static discharge immunity	EN61000-4-2 4 kV contact			
		8 kV air			
	RF electromagnetic field immunity	EN61000-4-3 10 V/m AM modulation (80 MHz to 1 GHz)			
		10 V/m pulse modulation (895 MHz to 905 MHz)			
EMC	EFT/B immunity	EN61000-4-4 2 kV (power supply line)			
		1 kV (signal line)			
	Surge immunity	EN61000-4-5 1 kV (power line)			
	Conductivity noise immunity	EN61000-4-6 10 V/m AM modulation (0.15 MHz to 80 MHz)			
	Power frequency magnetic field immunity	EN61000-4-8 30 A/m (50 Hz)			
	Voltage dip/Instantaneous stop/Voltage fluctuation immunity	EN61000-4-11 10 ms, 30% (rated voltage)			
		100 ms, 60% (rated voltage)			
		1,000 ms, 60% (rated voltage)			
		5,000 ms, 95% (rated voltage)			

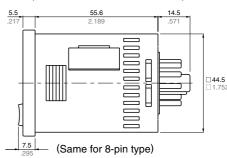
Dimensions

• LT4H-W digital timer

Screw terminal type (Flush mount)



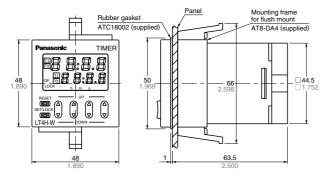
Pin type (Flush mount/Surface mount)

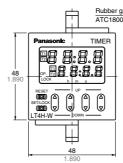


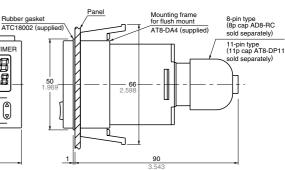
• Dimensions for flush mount (with adapter installed)

Screw terminal type

Pin type





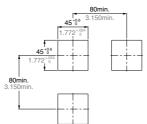


• Dimensions for front panel installations

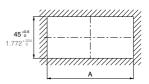
DIN rail terminal block (8-pin type AT8-DF8K sold separately) (11-pin type AT8-DF11K sold separately) Device installation rail AT8-DLA1 (sold separately) 95.5 (90.0) 3,760 (3.543) () dimension is for 8-pin type.

• Installation panel cut-out dimensions

The standard panel cut-out dimensions are shown below. Use the mounting frame (AT8-DA4) and rubber gasket (ATC18002).



For connected installations



When n timers are continuously installed, the dimension (A) is calculated according to the following formula (n: the number of the timers to be installed): $A = (48 \times n - 2.5)^{+0.6}_{-0.6} \quad A = (1.890 \times n - .098)^{+.004}_{-0.0}$

Note) 1: The installation panel thickness should be between 1 and 5 mm .039 and .197 inch.

For connected installations, the waterproofing ability between the unit and installation panel is lost.

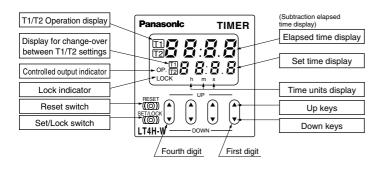
Specifications

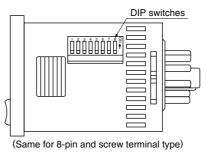
Туре			Ralay ou	tput type	Transistor output type		
tem			AC type AC/DC type DC type		AC type AC/DC type	DC type	
Rating	Rated opera	ting voltage	100 to 240 V AC, 24 V AC, 24 V AC/DC	12 to 24 V DC	100 to 240 V AC, 24 V AC, 24 V AC/DC	12 to 24 V DC	
	Rated frequency		50/60 Hz common	_	50/60 Hz common	_	
	Rated power consumption		Max. 10 V A	Max. 3 W	Max. 10 V A	Max. 3 W	
	Rated control capacity		5 A, 250 V AC	(resistive load)	100 mA,	30 V DC	
	Time range		9.999 s, 99.99 s, 999.9 s, 9999 s, 99 min 59 s, 999.9 min, 99 h 59 min, 999.9 h (selected by DIP switch)				
	Time countir	ng direction	Addition (UP)/Subtraction (DOWN) (2 directions selectable by DIP switch)				
	Operation m	ode	A (Power ON delay 1), A2 (Power ON delay 2), B (Signal ON delay), C (Signal OFF delay), D (Pulse one-shot), E (Pulse ON delay), F (Signal Flicker), G (Totalizing ON delay) (selectable by DIP switch)				
	Start/Reset/S	Stop input	Min. input signal width: 1 ms	s, 20 ms (2 directions by selected	d by DIP switch) (The 8-pin type	does not have a stop input.)	
	Lock input				3-pin type does not have a lock ir		
	Input signal				: Max. 1 k Ω ; Residual voltage: M, Max. energized voltage: 40V D0		
	Indication		7-segment LCD (LT4H, LT4H-L common), Elapsed value (backlight red LED), Setting value (backlight yellow LED)				
	Power failure method	e memory	EEP-ROM (Min. 10° overwriting)				
	Operating tir	ne fluctuation			F	· · · · · · · · · · · · · · · · · ·	
Time accuracy (max.)	Temperature error		± (0.005 % + 50 ms) in case of power on start ± (0.005 % + 20 ms) in case of input signal start Coperating voltage: 85 to 110% Temperature: -10 to +55°C +14 to +131°F Min. input signal width: 1ms				
	Voltage error						
	Setting error						
	Contact arrangement		Timed-out	1 Form C	Timed-out 1 Form A (Open collector)		
Contact	Contact resistance (Initial value)		100 mΩ (at	1 A 6 V DC)	_		
	Contact material		Ag alloy	/Au flash	-		
_ife	Mechanical (contact)		Min. 2 × 10 ⁷ ope. (Except for switch operation parts)		_		
	Electrical (co	ontact)	1.0 × 10⁵ ope. (At ra	ated control voltage)	Min. 10 ⁷ ope. (At rated control voltage)		
	Allowable opera	ting voltage range		85 to 110 % of rate	ed operating voltage		
Electrical	Breakdown voltage (Initial value)		2,000 Vrms for 1 min: Between live and dead metal parts (11-pin) 2,000 Vrms for 1 min: Between live and dead m 2,000 Vrms for 1 min: Between live and dead m 2,000 Vrms for 1 min: Between input and output 1,000 Vrms for 1 min: Between input and output			put and output	
	Insulation resistance (Initial value)		Between live and Min. 100 MΩ: Between input an Between contact		Min. 100 MΩ: Between live and dead metal parts Between input and output (At 500V)		
	Operating voltage reset time		Max. 0.5 s				
	Temperature rise		Max. (under the flow of nominal operation)	65° C ating current at nominal voltage)	_		
Mechanical -	Vibration Functional		10 to 55 Hz: 1 cycle/min single amplitude of 0.35 mm .014 inch (10 min on 3 axes)				
	resistance	Destructive	10 to 55 Hz: 1 cycle/min single amplitude of 0.75 mm .030 inch (1 h on 3 axes)				
	Shock	Functional	Min. 98 m 321.522 ft./s² (4 times on 3 axes)				
	resistance Destructive		Min. 294 m 964.567 ft./s² (5 times on 3 axes)				
	Ambient temperature		−10° C to 55° C +14° F to +131° F				
Operating	Ambient humidity		Max. 85 % RH (non-condensing)				
conditions	Air pressure		860 to 1,060 h Pa				
	Ripple rate		_	20 % or less	_	20 % or less	
Connection				8-pin/11-pin/s	screw terminal		
Protective construction		IP66 (front panel with rubber gasket)					

Applicable standard

Safety standard	EN61812-1	Pollution Degree 2/Overvoltage Category II
	(EMI)EN61000-6-4 Radiation interference electric field strength	EN55011 Group1 ClassA
	Noise terminal voltage	EN55011 Group1 ClassA
	(EMS)EN61000-6-2	
	Static discharge immunity	EN61000-4-2 4 kV contact 8 kV air
	RF electromagnetic field immunity	EN61000-4-3 10 V/m AM modulation (80 MHz to 1 GHz) 10 V/m pulse modulation (895 MHz to 905 MHz)
EMC	EFT/B immunity	EN61000-4-4 2 kV (power supply line) 1 kV (signal line)
	Surge immunity	EN61000-4-5 1 kV (power line)
	Conductivity noise immunity	EN61000-4-6 10 V/m AM modulation (0.15 MHz to 80 MHz)
	Power frequency magnetic field immunity	EN61000-4-8 30 A/m (50 Hz)
	Voltage dip/Instantaneous stop/Voltage fluctuation immunity	EN61000-4-11 10 ms, 30% (rated voltage)
		100 ms, 60% (rated voltage)
		1,000 ms, 60% (rated voltage)
		5,000 ms, 95% (rated voltage)

Part names





Specifications

	_	Туре	Ralay out	out type	Transistor	output type		
Item		AC type	DC type	AC type	DC type			
Rating	Rated opera	ting voltage	100 to 240 V AC, 24 V AC	12 to 24 V DC	100 to 240V AC, 24V AC	12 to 24 V DC		
	Rated freque	ency	50/60 Hz common	_	50/60 Hz common	_		
		consumption	Max. 10 V A	Max. 3 W	Max. 10 V A	Max. 3 W		
	Rated control capacity		5 A, 250 V AC		100 mA	, 30 V DC		
	Time range		99.99s, 999.9s, 9999s, 99min59s, 999.9min, 99h59min, 999.9h, 9999h (selected by DIP switch)					
	Time countir	ng direction	Addition (UP)/Subtraction (DOWN) (2 directions selectable by DIP switch)					
	Operation m	ode	Pulse input: Delayed one shot, OFF-start flicker or ON-start flicker Integrating input: Delayed one shot, OFF-start flicker or ON-start flicker					
	Start/Reset/Stop input		Min. input signal width: 1 ms, 20 ms (2 directions by selected by DIP switch) (The 8 pin type does not have a stop input.)					
	Lock input		Min. ir	nput signal width: 20 ms (The 8	3-pin type does not have a lock i	nput.)		
	Input signal				: Max. 1 k Ω ; Residual voltage: N, Max. energized voltage: 40 V I			
	Indication		7-segment L0	CD, Elapsed value (backlight re	ed LED), Setting value (backlight	t yellow LED)		
	Power failure memory method			EEP-ROM (Min.	. 10 ⁵ overwriting)			
Time	Operating tir	ne fluctuation			F			
	Temperature error		± (0.005% + 50 ms) in case of power on start	Operating voltage: 85% to 110%			
accuracy (max.)	Voltage error		± (0.005% + 50 ms) in case of power on start ± (0.005% + 20 ms) in case of input signal start Temperature: -10°C to +55°C +14°F to +131°F Min. input signal width: 1ms			ns		
()	Setting error		Linux input ognici matir mo					
	Contact arra	ngement	Timed-out	1 Form C	Timed-out 1 Form A (Open collector)			
Contact	Contact resista	nce (Initial value)	100 mΩ (at 1	A 6 V DC)				
	Contact material		Ag alloy/Au flash			<u> </u>		
Life	Mechanical (contact)		Min. 2 × 10 ⁷ ope. (Except for switch operation parts)			_		
	Electrical (co	ontact)	Min. 10⁵ ope. (At rate	ed control voltage)	Min. 10 ⁷ ope. (At rated control voltage)	ated control voltage)		
	Allowable operating voltage range		85 to 110 % of rated operating voltage					
Electrical	Breakdown voltage (Initial value)		2,000 Vrms for 1 min: Between live and dead metal parts (11-pin type only) 2,000 Vrms for 1 min: Between input and output 1,000 Vrms for 1 min: Between contacts		2,000 Vrms for 1 min: Between live and dead metal parts (Pin type only) 2,000 Vrms for 1 min: Between input and output			
	Insulation resistance (Initial value)		Between live and Min. 100 MΩ: Between input and Between contacts	d output (At 500V DC)	Min. 100 MΩ: Between live and dead metal parts Between input and output (At 500V DC)			
	Operating voltage reset time		Max. 0.5 s					
	Temperature rise		Max 6 (under the flow of nominal operat		_			
	Vibration	Functional	10 to 55 Hz: 1 cycle/ min single amplitude of 0.35 mm .014 inch (10 min on 3 axes)					
Mechanical	resistance	Destructive	10 to 55 Hz: 1 cycle/ min single amplitude of 0.75 mm .030 inch (1 h on 3 axes)					
	Shock	Functional	Min. 98 m 321.522 ft./s² (4 times on 3 axes)					
	resistance	Destructive			./s² (5 times on 3 axes)			
	Ambient temperature		−10° C to 55° C +14° F to +131° F					
	Ambient tem	perature	Max. 85 % RH (non-condensing)					
Operating	Ambient tem	•		Max. 85 % RH (non-condensing)			
Operating conditions		•		· · · · · · · · · · · · · · · · · · ·	,060 h Pa			
	Ambient hun	•	_	· · · · · · · · · · · · · · · · · · ·		20 % or less		
	Ambient hun Air pressure	•	_	860 to 1, 20 % or less	,060 h Pa	20 % or less		