

# Hour Meter

## TH8 DC Hour Meter

\* Refer to our website for details of product.



RoHS compliance

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Related Information

■ General terms and conditions..... F-3

■ Selection guide ..... P.1411~



[panasonic.net/id/pidsx/global](http://panasonic.net/id/pidsx/global)

### Features

- **IP66 waterproof construction**  
The front panel surface keeps water and dust out.
- **Includes operation light (LED)**  
The operation LED illuminates so you can quickly verify operation status.

IP66

### Typical applications

- **Hour counting for leased equipment**
- **Maintenance management of various equipments**

## DC-powered hour meters with high environment resistance

### PRODUCT TYPES

Installation	Counting range	Operation light	Rated voltage	Model No.
Panel installation	0 to 9999.9 hours	LED illuminates while operating.	12 V DC	<b>TH833C</b>
			24 V DC	<b>TH834C</b>

Note: Products are UL and c-UL certified as standard. (Suffix "U" is not required on Model No. when ordering.)

Timers

Time Switches

Counters

Hour Meters

Options

Limit Switches

Temperature  
Controllers

Solenoids

Fan Motors

**Selection  
Guide**

**LH2H**

**TH63/TH64**

**TH13/TH23**

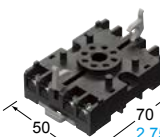
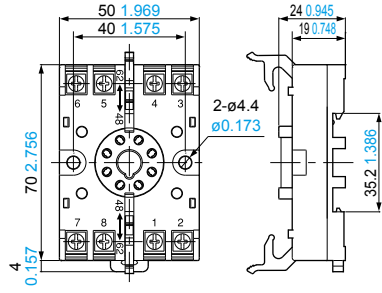
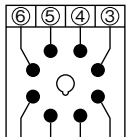
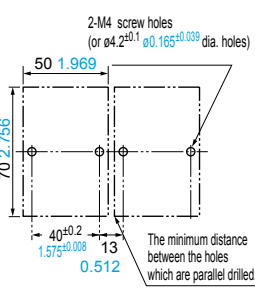
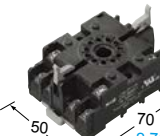
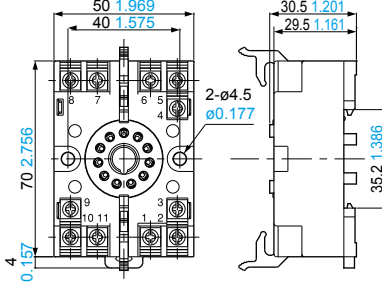
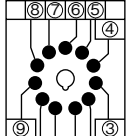
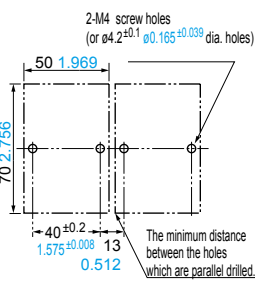
**TH14/TH24**

**TH40**

**TH8**

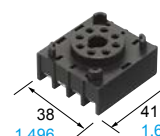
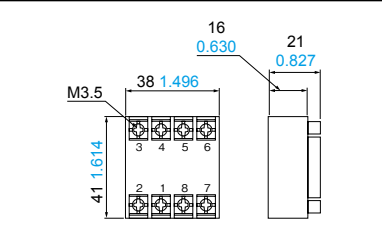
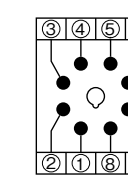
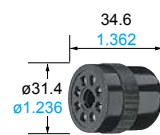
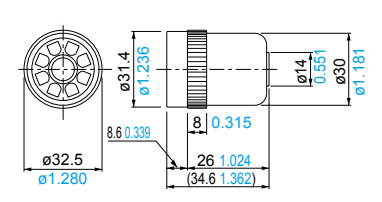

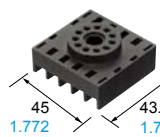
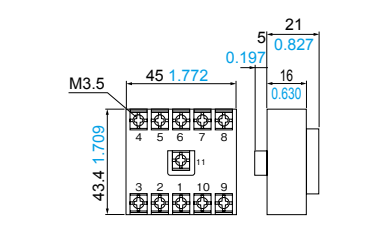
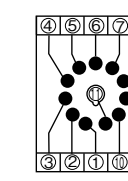
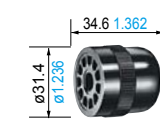
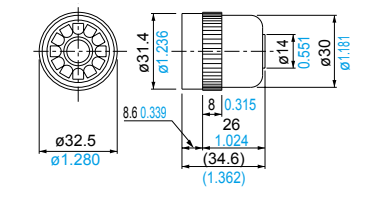
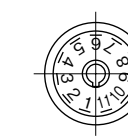


TERMINAL SOCKETS (Unit: mm in, Tolerance: ±1 ±0.039)

Type		Appearance	Dimensions	Terminal wiring (Top view)	Mounting hole dimensions
Timer	Counter				
PM4H-S PM4H-M PM4H-SD/SDM PM4H-F8 PM4H-F8R PM4H-W LT4H LT4H-L LT4H-W QM4H PM4S (8-pin type)	LC4H LC4H-L (8-pin type)	<div>• DIN rail socket (8-pin)</div>  <div>Model No.: <b>AT8-DF8K</b></div>			
PM4H-A PM4H-F11R LT4H LT4H-W (11-pin type)	LC4H LC4H-L LC4H-S LC4H-W (11-pin type)	<div>• DIN rail socket (11-pin)</div>  <div>Model No.: <b>AT8-DF11K</b></div>			

Note: The terminal numbers on the counter and timer are identical to those on the terminal socket.

SOCKETS (Unit: mm in, Tolerance: ±1 ±0.039)

Type		Appearance	Dimensions	Terminal wiring (Top view)	Mounting hole dimensions
Timer	Counter				
PM4H-S PM4H-M PM4H-SD/SDM PM4H-F8 PM4H-F8R PM4H-W LT4H LT4H-L LT4H-W QM4H	LC4H LC4H-L (8-pin type)	<div>• Rear terminal socket</div>  <div>Model No.: <b>AT8-R8K</b></div>			—
		<div>• 8P cap</div>  <div>Model No.: <b>AD8-RC</b></div>			—
PM4H-A PM4H-F11R LT4H LT4H-W (11-pin type)	LC4H LC4H-L LC4H-S LC4H-W (11-pin type)	<div>• Rear terminal socket</div>  <div>Model No.: <b>AT8-R11K</b></div>			—
		<div>• 11P cap</div>  <div>Model No.: <b>AT8-DP11</b></div>			—

Note: The terminal numbers on the counter and timer are identical to those on the socket.

## MOUNTING PARTS (Unit: mm in, Tolerance: $\pm 1 \pm 0.039$ )

<p>•Rubber gasket</p> <p>Model No.: <b>ATC18002</b></p> <p>Applicable for          { Timer: PM4H series, LT4H series and Counter: LC4H series          • Timer (except IP50 type): PM4H (screw terminal type) and LT4H series          • Counter: LC4H series</p> <p>The rubber gasket is enclosed in</p>	<p>•Mounting frame</p> <p>Model No.: <b>AT8-DA4</b></p> <p>Applicable for          { Timer: PM4H series, LT4H series, QM4H series and Counter: LC4H series          • Timer (except IP50 type): PM4H (screw terminal type) and LT4H series          • Counter: LC4H series</p> <p>The rubber gasket is enclosed in</p>
<p>•Mounting rails (Applicable for DIN and IEC standards)</p> <p>Model No.: <b>AT8-DLA1</b></p> <p>Length: 1 m 3.281 ft Aluminum</p>	<p>•Fastening plate</p> <p>Model No.: <b>AT8-DLE</b></p> <p>For holding DIN rails</p>
<p>•Front protection cover for DIN 48 size (flexible type):          (Timer) LT4H series, QM4H series          (Counter) LC4H series</p> <p>Model No.: <b>AQM4803</b></p>	<p>•Front protection cover for DIN 48 size (hard type):          (Counter) QM4H series</p> <p>Model No.: <b>AQM4801</b></p>
<p>•Mounting frame</p> <p>Model No.: <b>AKW4822</b></p>	

## ACCESSORIES

### PM4H series (Timer)

#### Panel cover (Black)

<p>Panel cover A for PM4H-A</p> <p>Model No.: <b>ATC18011</b></p>	<p>Panel cover S for PM4H-S</p> <p>Model No.: <b>ATC18012</b></p>	<p>Panel cover M for PM4H-M</p> <p>Model No.: <b>ATC18013</b></p>
<p>Panel cover W for PM4H-W</p> <p>Model No.: <b>ATC18014</b></p>	<p>Panel cover SD for PM4H-SD</p> <p>Model No.: <b>ATC18015</b></p>	<p>Panel cover F for PM4H-F</p> <p>Model No.: <b>ATC18016</b></p>

### LT4H series (Timer)

#### Panel cover (Black)

<p>Panel cover for LT4H/LT4H-L</p> <p>Model No.: <b>ATL58011</b></p>	<p>Panel cover for LT4H-W</p> <p>Model No.: <b>ATL68011</b></p>
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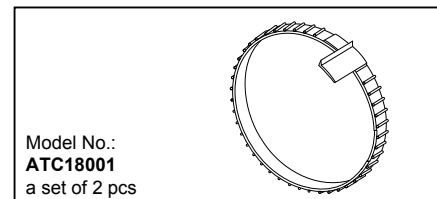
### LC4H series (Counter)

#### Panel cover (Black)

<p>Panel cover for LC4H/LC4H-L (4 digits)</p> <p>Model No.: <b>AEL58011</b></p>	<p>Panel cover for LC4H/LC4H-L (6 digits)</p> <p>Model No.: <b>AEL58012</b></p>	<p>Panel cover for LC4H-S (4 digits)</p> <p>Model No.: <b>AEL58013</b></p>	<p>Panel cover for LC4H-S (6 digits)</p> <p>Model No.: <b>AEL58014</b></p>	<p>Panel cover for LC4H-W</p> <p>Model No.: <b>AEL68011</b></p>
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The black panel cover is also available so that you can change the appearance of the panel by changing the panel cover.  
 The color of the standard panel cover is ash gray.

### Set ring



When you control the fixed time range, the setting rings (a set of 2 pcs.) make it easy to do the time setting and keep the time range all the time.  
 (Excluding PM4H-W)

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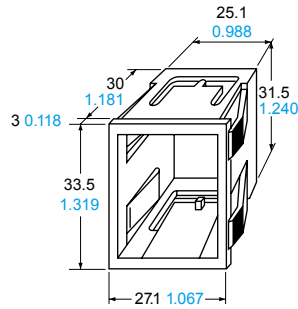
# 1425 S1DXM-A/M Multi-range Timer, S1DX Timer Common Options

## Accessory (Unit: mm in)

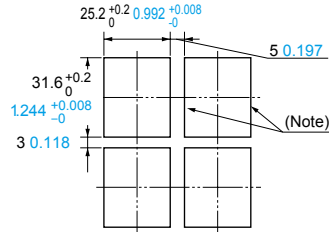
- Mounting frame  
(for panel mounting type)



Model No.:  
**ADX18002** (Titanium-gray)  
**ADX18006** (Gray)  
**ADX18007** (Black)

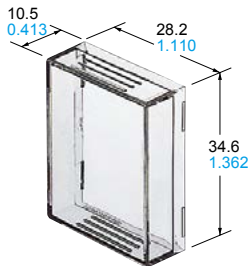


### Panel cutout dimensions



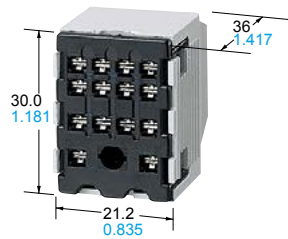
Board thickness 1 to 3 mm **0.039 to 0.118 in**  
Note: Make sure the holes area stays as right angles.

- Protective cover



Model No.: **ADX18008**

- Cap block



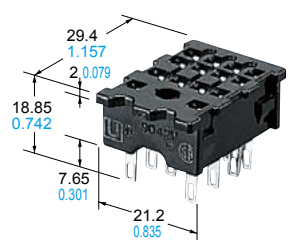
Model No.: **ADX18011**

- Cap for cap block



Model No.: **ADX18004**

- Socket for cap block

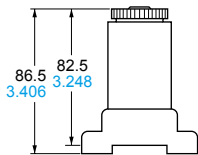


Model No.: **ADX18003**

[Use **HC2-PS-K** (2c) or  
**HC4-PS-K** (4c) for PC board  
mounting]

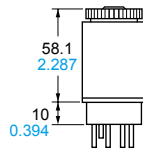
## Terminal socket (Unit: mm in)

- HC2 slim DIN terminal socket  
(Uses both wire springs and leaf springs)



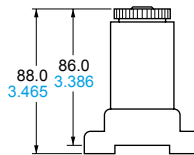
Model No.: **HC2-SFD-S**

- HC4 socket  
(Wire spring)



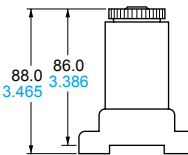
Model No.: **HC4-SS-K**

- HJ2 terminal  
socket



Model No.: **HJ2-SFD**  
**HJ2-SFD-S**

- HJ4 terminal  
socket



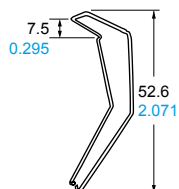
Model No.: **HJ4-SFD**  
**HJ4-SFD-S**

## Socket leaf holding clip (Unit: mm in)

ADX18012		AD68002	
Appearance	Dimensions	Appearance	Dimensions
	4.5 (0.177) 61.6 (2.425)		63.8 (2.512) 4.5 (0.177)
(2 pieces per set)		(2 pieces per set)	

\* Each of **ADX18012, AD68002** has two springs.

## Socket line holding clip for S1DXM-A/M (Sold separately)



**ADX28005**

## Application


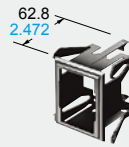


Type	Common for S1DX, S1DXM-A/M			
	ADX18012	AD68002	ADX28005 (Note 2)	ADX18005 (Note 3)
Terminal socket				
For HC relay	<b>HC2-SFD-S</b> (Note4)	—	○	○
	<b>AP3822K</b>	—	○	○
	<b>AP3882K</b>	—	○	○
	<b>AP3824K</b>	—	○	○
For HJ relay	<b>HC4-SS-K</b>	—	○	○
	<b>HJ2-SFD</b> (Note4)	○	—	—
	<b>HJ2-SFD-S</b> (Note4)	○	—	—
	<b>HJ4-SFD</b> (Note4)	△	—	—
	<b>HJ4-SFD-S</b> (Note4)	△	—	—

○: Available, —: Not available

- Notes: 1) The triangles "△" indicate that removal will be slightly difficult when installed laterally in succession.  
2) The socket line holding clip (**ADX28005**) is not included with the S1DXM-A/M timer.  
3) The socket line holding clip **ADX18005** is enclosed in the S1DX timer.  
4) For use where there is a lot of vibration and shock, please use a compliant socket leaf holding clip or socket line holding clip.

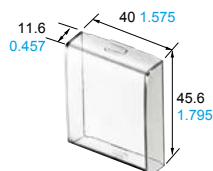
## FLUSH TYPE (Unit: mm in)

### Flush type mounting frame

Appearance	Color	Model No.
	Gray	<b>N-TF-H-GR</b>
	Black	<b>N-TF-H-B</b>
	Silver gray	<b>N-TF-H-SG</b>
	Gray	<b>N-TF-K-GR</b>
	Black	<b>N-TF-K-B</b>
	Silver gray	<b>N-TF-K-SG</b>
	Gray	<b>N-TF-YC-GR</b>
	Black	<b>N-TF-YC-B</b>
	Silver gray	<b>N-TF-YC-SG</b>
	Gray	<b>N-TF-Y-GR</b>

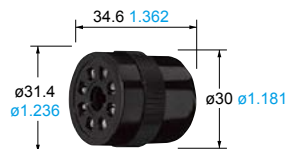
Note: The thickness of all applicable panels ranges from 1.0 to 3.5 mm 0.039 to 0.138 in.

#### • Compact timer protective cover



Model No.: **N-TC**

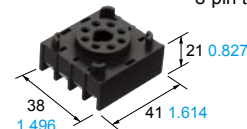
#### • 8P cap



Model No.: **AD8-RC**

#### • Rear terminal socket: M3.5

Tolerance:  $\pm 1 \pm 0.039$  Applicable for 8-pin type

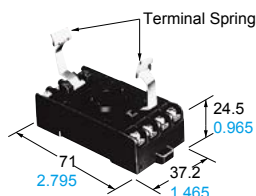


Model No.: **AT8-R8K**

### Applicable for the exposed type plug-in and stand-up type timers (PMH)

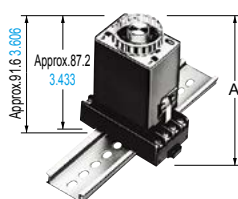
#### • DIN terminal socket: M3.5

Tolerance:  $\pm 0.5 \pm 0.020$



Model No.: **AT8-RFD**

When installing the terminal socket



#### • Mounting rail (Applicable for DIN and IEC standards)



Model No.: **AT8-DLA1**

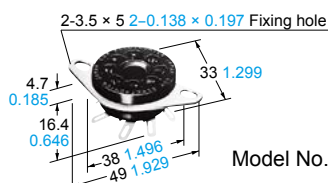
#### • Fastening plate



Model No.: **AT8-DLE**

#### • GT pipe socket

Tolerance:  $\pm 0.5 \pm 0.020$



Model No.: **AW68102**

Length: 1 m  
3.281 ft  
Aluminum

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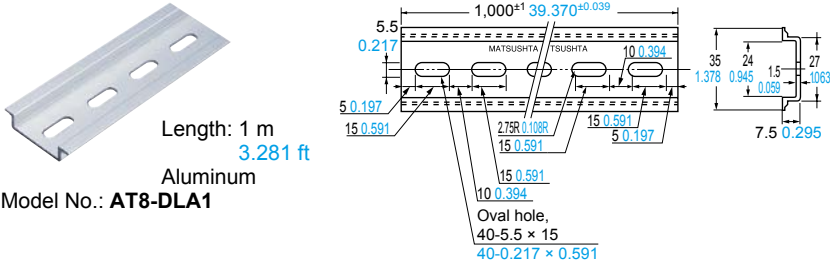
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Fan Motors

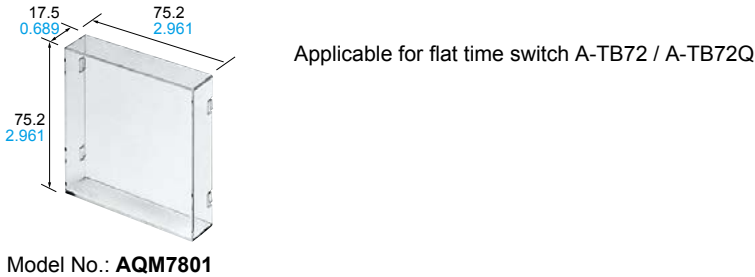
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■ Mounting parts (Unit: mm in, Tolerance: ±1 ±0.039)

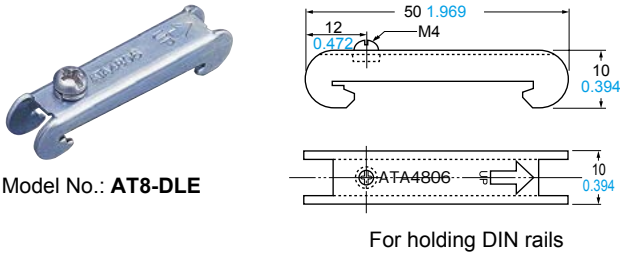
- Mounting rails (Applicable for DIN and IEC standards)



- Protective cover for DIN 72 size



- Fastening plate



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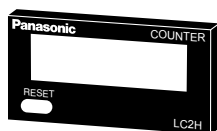


## LC2H series OPTIONS

### Accessories

(for LC2H total counter)

Panel cover (black)



Model No.: **AEL3801**

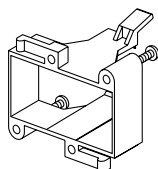
You can change the design of the front panel by replacing it with this black panel cover. The counter comes with an ash gray panel cover as standard.

Note: No panel cover accessory (black) is available for LC2H preset counter.

### Installation parts

(Suitable for LC2H total counter\* and LC2H preset counter)

Mounting frame



Model No.: **ATH3803**

\* Packaged with the mounting bracket type LC2H total counter

### Lithium battery (3 V)

(for LC2H total counter)



Model No.: **ATH3802**



- Make sure the "+" and "-" polarities are positioned correctly.
- Do not throw the old battery into a fire, short circuit it, take it apart, or allow it to come into contact with heat.
- The battery is not rechargeable.

Note: Packaged with LC2H (excluding the PC board mounting type).

### Rubber gasket

(Suitable for LC2H total counter\* and LC2H preset counter)



Model No.: **ATH3804**

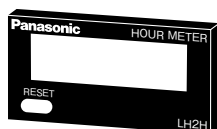
\* Packaged with the mounting bracket type LC2H total counter

## LH2H series OPTIONS

### Accessories

(for LH2H hour meter)

Panel cover (black)



Model No.: **ATH3801**

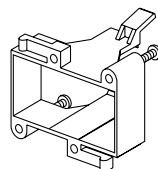
You can change the design of the front panel by replacing it with this black panel cover. The counter comes with an ash gray panel cover as standard.

Note: No panel cover option (black) is available for LH2H preset hour meter.

### Installation parts

(Suitable for LH2H hour meter\* and LH2H preset hour meter)

Mounting frame



Model No.: **ATH3803**

\* Packaged with the mounting bracket type LH2H hour meter

### Lithium battery (3 V)

(for LH2H hour meter)



Model No.: **ATH3802**



- Make sure the "+" and "-" polarities are positioned correctly.
- Do not throw the old battery into a fire, short circuit it, take it apart, or allow it to come into contact with heat.
- The battery is not rechargeable.

Note: Packaged with LH2H (excluding the PC board mounting type).

### Rubber gasket

(Suitable for LH2H hour meter\* and LH2H preset hour meter)



Model No.: **ATH3804**

\* Packaged with the mounting bracket type LH2H hour meter

FIBER  
SENSORS

LASER  
SENSORS

PHOTO-  
ELECTRIC  
SENSORS

MICRO  
PHOTO-  
ELECTRIC  
SENSORS

AREA  
SENSORS

SAFETY LIGHT  
CURTAINS /  
SAFETY  
COMPONENTS

PRESSURE /  
FLOW  
SENSORS

INDUCTIVE  
PROXIMITY  
SENSORS

PARTICULAR  
USE  
SENSORS

SENSOR  
OPTIONS

SIMPLE  
WIRE-SAVING  
UNITS

WIRE-SAVING  
SYSTEMS

MEASURE-  
MENT  
SENSORS

STATIC  
CONTROL  
DEVICES

LASER  
MARKERS

PLC

HUMAN  
MACHINE  
INTERFACES

ENERGY  
MANAGEMENT  
SOLUTIONS

FA  
COMPONENTS

MACHINE  
VISION  
SYSTEMS

UV  
CURING  
SYSTEMS

Timers

Time  
Switches

Counters

Hour  
Meters

Options

Limit  
Switches

Temperature  
Controllers

Solenoids

Fan  
Motors