Hour Meter

TH8 DC Hour Meter

* Refer to our website for details of product.

RoHS compliance

Related Information ■ General terms and conditions..... F-3 ■ Selection guide ..... P.1411~

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

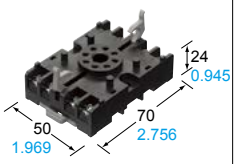
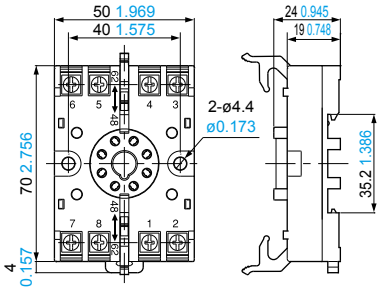
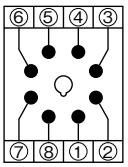
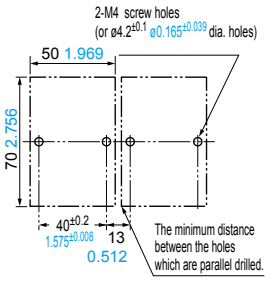
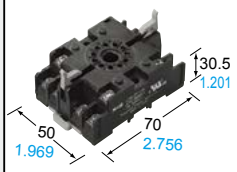
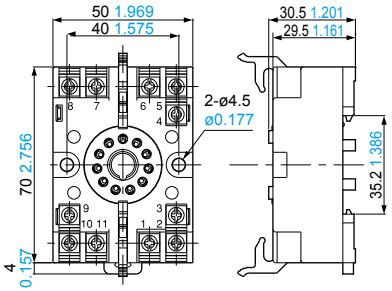
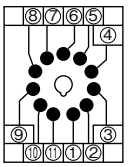
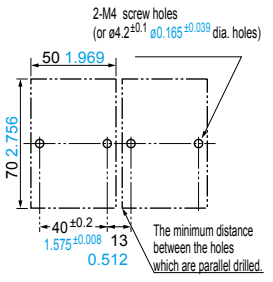
PRODUCT TYPES

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

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

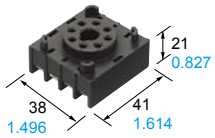
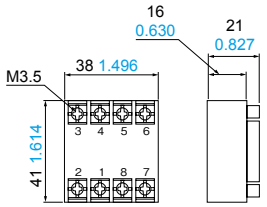
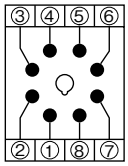
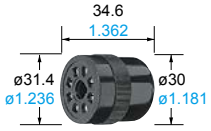
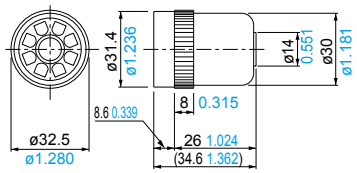
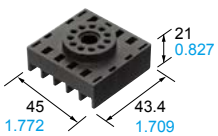
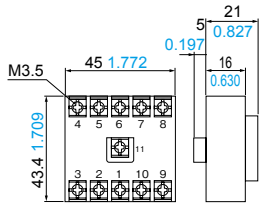
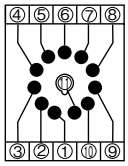
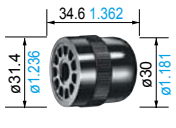
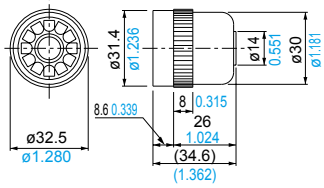
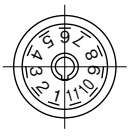
MEMO

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)	• DIN rail socket (8-pin)  Model No.: **AT8-DF8K**			
PM4H-A PM4H-F11R LT4H LT4H-W (11-pin type)	LC4H LC4H-L LC4H-S LC4H-W (11-pin type)	• DIN rail socket (11-pin)  Model No.: **AT8-DF11K**			

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

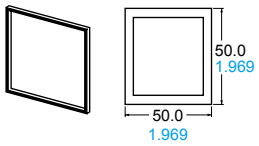
SOCKETS (Unit: mm in, Tolerance: ±1 ±0.039)

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 (8-pin type) PM4S QM4H	LC4H LC4H-L (8-pin type)	• Rear terminal socket  Model No.: **AT8-R8K**			—
		• 8P cap  Model No.: **AD8-RC**			—
PM4H-A PM4H-F11R LT4H LT4H-W (11-pin type)	LC4H LC4H-L LC4H-S LC4H-W (11-pin type)	• Rear terminal socket  Model No.: **AT8-R11K**			—
		• 11P cap  Model No.: **AT8-DP11**			—

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

MOUNTING PARTS (Unit: mm in, Tolerance: ±1 ±0.039)

●Rubber gasket

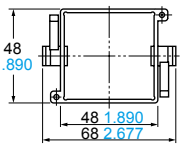


Applicable for { Timer: PM4H series, LT4H series and Counter: LC4H series

Model No.: **ATC18002**

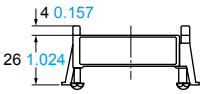
The rubber gasket is enclosed in { • Timer (except IP50 type): PM4H (screw terminal type) and LT4H series • Counter: LC4H series

●Mounting frame



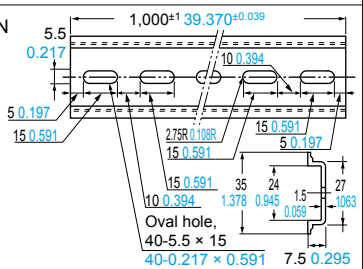
Applicable for { Timer: PM4H series, LT4H series, QM4H series and Counter: LC4H series

Model No.: **AT8-DA4**



The rubber gasket is enclosed in { • Timer (except IP50 type): PM4H (screw terminal type) and LT4H series • Counter: LC4H series

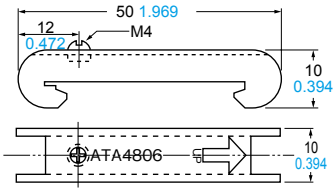
●Mounting rails (Applicable for DIN and IEC standards)



Model No.: **AT8-DLA1**

Length: 1 m 3.281 ft
Aluminum

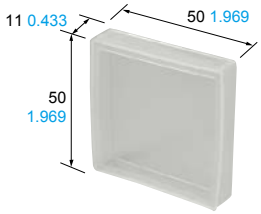
●Fastening plate



Model No.: **AT8-DLE**

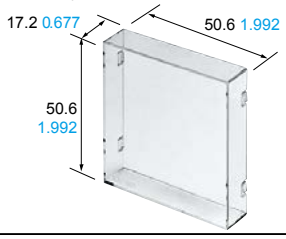
For holding DIN rails

●Front protection cover for DIN 48 size (flexible type):
(Timer) LT4H series, QM4H series
(Counter) LC4H series



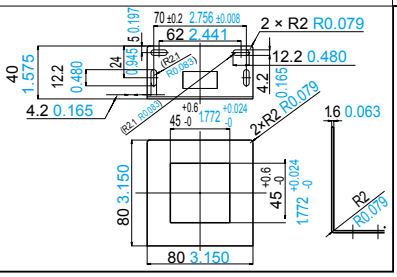
Model No.: **AQM4803**

●Front protection cover for DIN 48 size (hard type):
(Counter) QM4H series



Model No.: **AQM4801**

●Mounting frame



Model No.: **AKW4822**

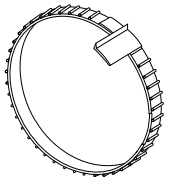
ACCESSORIES

PM4H series (Timer)

Panel cover (Black)

Panel cover A for PM4H-A	Panel cover S for PM4H-S	Panel cover M for PM4H-M
Model No.: **ATC18011**	Model No.: **ATC18012**	Model No.: **ATC18013**
Panel cover W for PM4H-W	**Panel cover SD for PM4H-SD**	**Panel cover F for PM4H-F**
Model No.: **ATC18014**	Model No.: **ATC18015**	Model No.: **ATC18016**

Set ring



Model No.: **ATC18001**
a set of 2 pcs

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)

LT4H series (Timer)

Panel cover (Black)

Panel cover for LT4H/LT4H-L	Panel cover for LT4H-W
Model No.: **ATL58011**	Model No.: **ATL68011**

LC4H series (Counter)

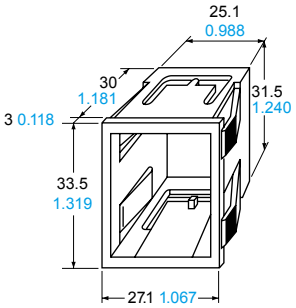
Panel cover (Black)

Panel cover for LC4H/LC4H-L (4 digits)	Panel cover for LC4H/LC4H-L (6 digits)	Panel cover for LC4H-S (4 digits)	Panel cover for LC4H-S (6 digits)	Panel cover for LC4H-W
Model No.: **AEL58011**	Model No.: **AEL58012**	Model No.: **AEL58013**	Model No.: **AEL58014**	Model No.: **AEL68011**

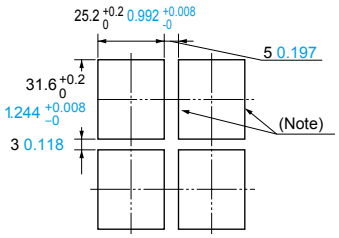
The black panel cover is also available so that you can change the appearance of the panel by changing the panel cover.
The color of the standard panel cover is ash gray.

Accessory (Unit: mm in)

● Mounting frame
(for panel mounting type)



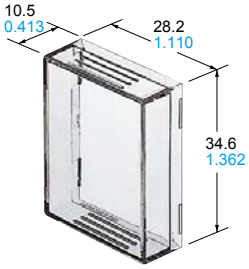
Panel cutout dimensions



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

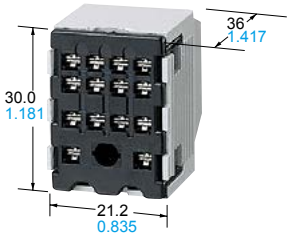
Model No.:
ADX18002 (Titanium-gray)
ADX18006 (Gray)
ADX18007 (Black)

● Protective cover



Model No.: **ADX18008**

● Cap block

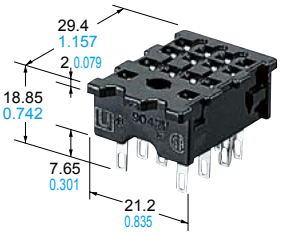


Model No.: **ADX18011**

● Cap for cap block

Model No.: **ADX18004**

● Socket for cap block

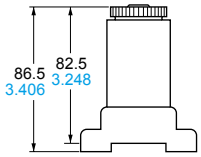


Model No.: **ADX18003**

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

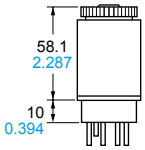
Terminal socket (Unit: mm in)

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



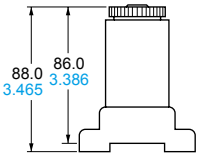
Model No.: **HC2-SFD-S**

● HC4 socket
(Wire spring)



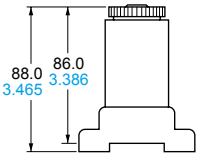
Model No.: **HC4-SS-K**

● HJ2 terminal socket



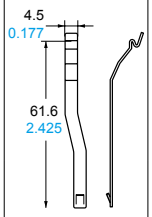
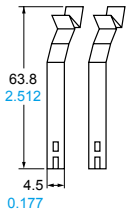
Model No.: **HJ2-SFD**
HJ2-SFD-S

● HJ4 terminal socket



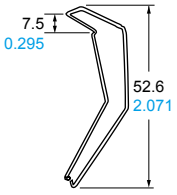
Model No.: **HJ4-SFD**
HJ4-SFD-S

Socket leaf holding clip (Unit: mm in)

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

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

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



ADX28005

Application

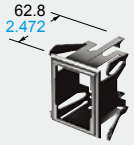
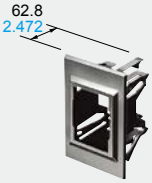
Terminal socket \ Type		Common for S1DX, S1DXM-A/M		S1DXM-A/M only	S1DX only
		ADX18012	AD68002	ADX28005 (Note 2)	ADX18005 (Note 3)
For HC relay	**HC2-SFD-S** (Note4)	—	○	○	○
	AP3822K	—	—	○	○
	AP3882K	—	—	○	○
	AP3824K	—	—	○	○
	HC4-SS-K	—	—	○	○
For HJ relay	**HJ2-SFD** (Note4)	○	—	—	—
	HJ2-SFD-S (Note4)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

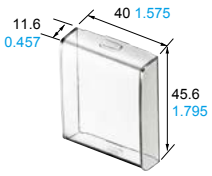
FLUSH TYPE (Unit: mm in)

Flush type mounting frame

Appearance	Color	Model No.
	Gray	**N-TF-H-GR**
	Black	**N-TF-H-B**
	Silver gray	**N-TF-H-SG**
	Gray	**N-TF-K-GR**
	Black	**N-TF-K-B**
	Silver gray	**N-TF-K-SG**
	Gray	**N-TF-YC-GR**
	Black	**N-TF-YC-B**
	Silver gray	**N-TF-YC-SG**
	Gray	**N-TF-Y-GR**

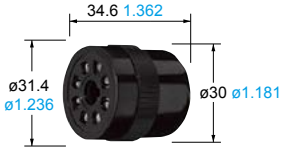
Note: The thickness of all applicable panels ranges from 1.0 to 3.5 mm 0.039 to 0.138 in.

- Compact timer protective cover



Model No.: **N-TC**

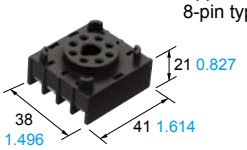
- 8P cap



Model No.: **AD8-RC**

- Rear terminal socket: M3.5

Tolerance: ±1 ±0.039 Applicable for 8-pin type

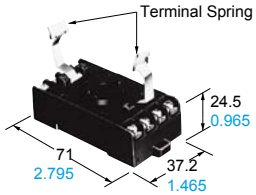


Model No.: **AT8-R8K**

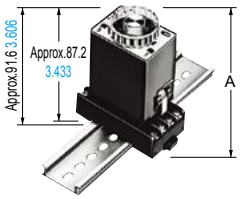
Applicable for the exposed type plug-in and stand-up type timers (PMH)

- DIN terminal socket: M3.5

Tolerance: ±0.5 ±0.020



When installing the terminal socket



Model No.: **AT8-RFD**

- Mounting rail (Applicable for DIN and IEC standards)

Model No.: **AT8-DLA1**

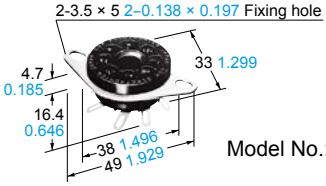
Length: 1 m 3.281 ft
Aluminum

- Fastening plate

Model No.: **AT8-DLE**

- GT pipe socket

Tolerance: ±0.5 ±0.020

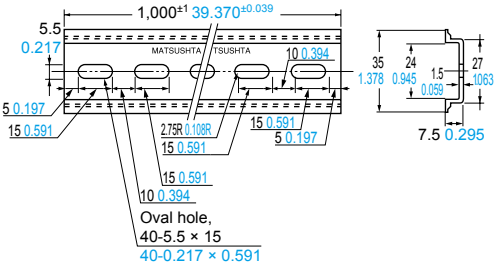


Model No.: **AW68102**

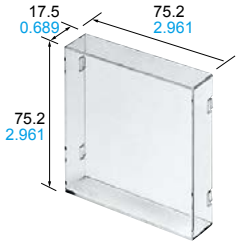
Mounting parts (Unit: mm in, Tolerance: ±1 ±0.039)

- Mounting rails (Applicable for DIN and IEC standards)

Length: 1 m
3.281 ft
Aluminum
Model No.: **AT8-DLA1**



- Protective cover for DIN 72 size

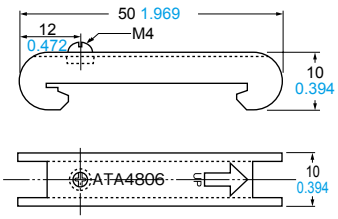


Applicable for flat time switch A-TB72 / A-TB72Q

Model No.: **AQM7801**

- Fastening plate

Model No.: **AT8-DLE**

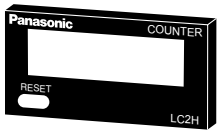


For holding DIN rails

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.

Lithium battery (3 V)
(for LC2H total counter)

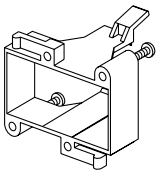
Model No.: **ATH3802**

- 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).

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

Rubber gasket
(Suitable for LC2H total counter* and LC2H preset counter)

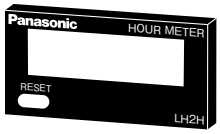
Model No.: **ATH3804**

* 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.

Lithium battery (3 V)
(for LH2H hour meter)

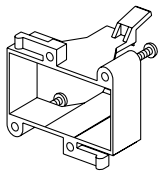
Model No.: **ATH3802**

- 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).

Installation parts
(Suitable for LH2H hour meter* and LH2H preset hour meter)

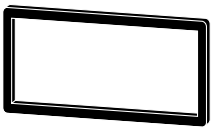
Mounting frame



Model No.: **ATH3803**

* Packaged with the mounting bracket type LH2H hour meter

Rubber gasket
(Suitable for LH2H hour meter* and LH2H preset hour meter)



Model No.: **ATH3804**

* Packaged with the mounting bracket type LH2H hour meter