Panasonic ideas for life

DIN48 SIZE HOUR METER

TH14.TH24 Hour Meters



TH24 series (with reset button)



TH14 series (without reset button)

RoHS Directive compatibility information http://www.nais-e.com/ UL File No.: E42876 CSA File No.: LR39291



Features

1. High-performance compact syncronous motor

The accurately turning motor is employed to provide for longer period of measurement.

2. Common for 50/60 Hz power frequency

A lever is used to select 50 Hz or 60 Hz. There is no need to rearrange the control panel and other signal destinations.

3. Dimensions as per DIN 43700 standard

The units are in the 48×48 DIN standard size. They can be fitted in panels and give refined metallic appearance.

4. Easier wiring

The flat terminals (#187) are quick and easy to connect.

5. Rotary indicator

The rotary indicator makes one turn every 2 minutes for monitoring.

6. Compliant with UL, CSA and CE.

Typical applications

Maintenance management of machine tools, automated machines, control panels, forming machines, medical equipment, generators, compressors, water treatment facilities, presses, motors, etc.

Specifications

12 V AC, 24 V AC, 48 V AC, 100 V AC, 110 V AC, 115 to 120 V AC, 200 V AC, 220 V AC, 240 V AC				
85 to 115% of rated operating voltage				
50/60 Hz (selectable by switch)				
0 to 99999.9 hours (TH14 series) 0 to 9999.9 hours (TH24 series)				
0.1 hours (6 min)				
Approx. 1.5 W				
Min. 100 MΩ; Between live and dead metal parts (At 500V DC)				
2,000 Vrms Between live and dead metal parts				
55°C 131°F				
10 to 55 Hz: 1 cycle/min double amplitude of 0.5 mm (10 min on 3 axes)				
Min 98 m/s ² {10 G} (4 times on 3 axes)				
Min 980 m/s² {100 G} (5 times on 3 axes)				
−10 to +50°C +14 to +122°F				
Max. 85% RH (non-condensing)				
145 g 5.11 oz (TH14 series)	150 g 5.29 oz (TH24 series)			
	85 to 115% of 50/60 Hz (s 0 to 99999.9 to 9999.9 to 9999.0 to 999			

Product types

Typo	Operating	Part number		Operating	Part number		Operating	Part number	
Type	voltage	Silver panel	Black panel	voltage	Silver panel	Black panel	voltage	Silver panel	Black panel
TH14 series	100V AC	TH141S	TH141	24V AC	TH144S	TH144	115 to 120V AC	TH147S	TH147
(without reset	200V AC	TH142S	TH142	48V AC	TH145S	TH145	220V AC	TH148S	TH148
button)	12V AC	TH143S	TH143	110V AC	TH146S	TH146	240V AC	TH149S	TH149
TH24 series	100V AC	TH241S	TH241	24V AC	TH244S	TH244	115 to 120V AC	TH247S	TH247
(with reset	200V AC	TH242S	TH242	48V AC	TH245S	TH245	220V AC	TH248S	TH248
button)	12V AC	TH243S	TH243	110V AC	TH246S	TH246	240V AC	TH249S	TH249

Note) Only the black-panel type is UL-recognized and CSA-certified. For this type, specify "U" at the end of the part number when ordering.

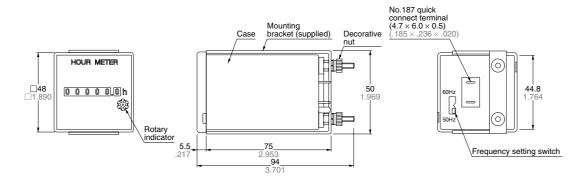
Applicable standard

Safety standard	EN61010-1	Pollution Degree 2/Overvoltage Category II
EMC	(EMI)EN61000-6-4 Radiation interference electric field strength Noise terminal voltage (EMS)EN61000-6-2 Static discharge immunity RF electromagnetic field immunity EFT/B immunity Surge immunity Conductivity noise immunity Power frequency magnetic field immunity Voltage dip/Instantaneous stop/Voltage fluctuation immunity	EN55011 Group1 ClassA EN55011 Group1 ClassA EN61000-4-2

Dimensions (TH14 and TH24 series common)

mm inch

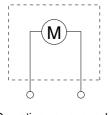
General tolerance: $\pm 1.0 \pm .039$

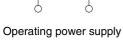


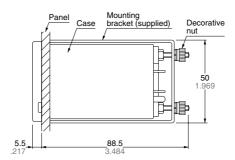
Wiring diagram

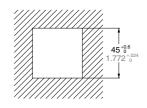
Panel mounting

mm inch









• Panel cutout dimensions