

Silver panel



Black panel

Features

1. Upgraded composite function

Specified-period measurement and total-time measurement can be monitored on a single hour meter.

2. High-performance compact synchronous motor

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

3. 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.

4. 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.

5. Easier wiring

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

6. Rotary indicator

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

7. Compliant with CE.

RoHS Directive compatibility information
<http://www.nais-e.com/>

Specifications

Rated operating voltage		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
Allowable operating voltage range		85 to 115% of rated operating voltage
Rated frequency		50/60 Hz (selectable by switch)
Counting range		0 to 9999.9 hours (upper side) ... with reset indicator 0 to 99999.9 hours (lower side) ... without reset indicator
Minimum time display		0.1 hours (6 min)
Rated power consumption		Approx. 1.5 W
Insulation resistance (Initial value)		Min. 100 MΩ; Between live and dead metal parts (At 500V DC)
Breakdown voltage (Initial value)		2,000 Vrms Between live and dead metal parts
Max. temperature rise		55°C 131°F
Vibration resistance	Functional	10 to 55 Hz: 1 cycle/min double amplitude of 0.5 mm (10 min on 3 axes)
Shock resistance	Functional	
	Destructive	Min 98 m/s ² {10 G} (4 times on 3 axes) Min 980 m/s ² {100 G} (5 times on 3 axes)
Ambient temperature		-10 to +50°C +14 to +122°F
Ambient humidity		Max. 85% RH (non-condensing)
Weight		160 g 5.64 oz

Product types

Type	Operating voltage	Part number		Operating voltage	Part number		Operating voltage	Part number	
		Silver panel	Black panel		Silver panel	Black panel		Silver panel	Black panel
TH40 series	100V AC	TH401S	TH401	24V AC	TH404S	TH404	115 to 120V AC	TH407S	TH407
	200V AC	TH402S	TH402	48V AC	TH405S	TH405	220V AC	TH408S	TH408
	12V AC	TH403S	TH403	110V AC	TH406S	TH406	240V AC	TH409S	TH409

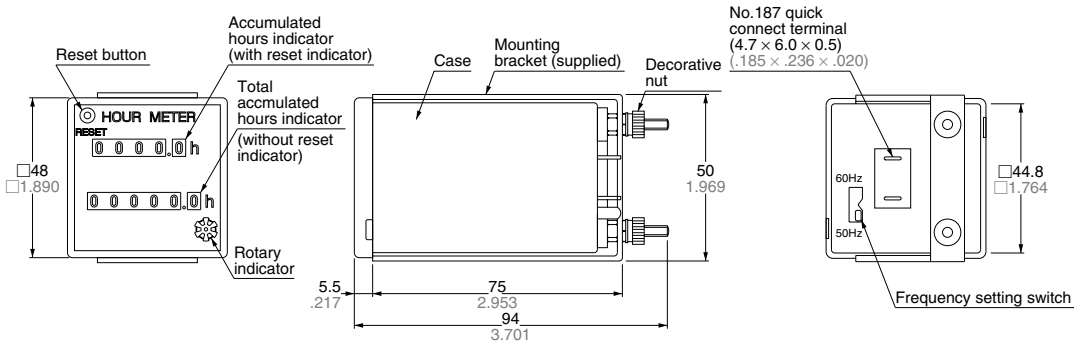
Applicable standard

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 4 kV contact 8 kV air EN61000-4-3 10 V/m AM modulation (80 MHz to 1 GHz) 10 V/m pulse modulation (895 MHz to 905 MHz) EN61000-4-4 2 kV (power supply line) EN61000-4-5 1 kV (power line) EN61000-4-6 10 V/m AM modulation (0.15 MHz to 80 MHz) EN61000-4-8 30 A/m (50 Hz) 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

mm inch

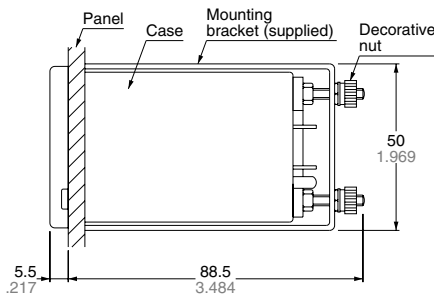
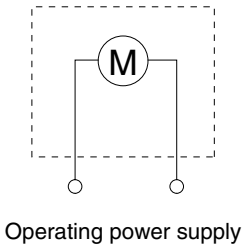
General tolerance: $\pm 1.0 \pm .039$



Wiring diagram

Panel mounting

mm inch



• Panel cutout dimensions

