

Standard Watt-hour meter MODEL WHS-1200

High accuracy and competitive price are realized
as a standard watt-hour meter (Active/Reactive)

PC11-06-01(05)EN

NEW!



Features

- Available for 3 phase 3 wire, single phase 3 wire, and/or single phase 2 wire. (Model WHS-1300 for 3 phase 4 wire existed to produce upon order)
- 4 channels of pulse output achieves 4 kinds of pulse output per each of active/reactive power receipt and delivery. (4 different kinds of pulse output possible in response to input simultaneously)
- 2 kinds of open-collector and voltage pulse outputs are equipped
- As digital signal processing technology is adopted for power conversion, better property for aging is retained.

Specifications

Input Section

Phase Wire System: 3 phase 3 wire system(Available with single phase 3 wire or open-phase.)
Voltage input Range: 100V (90~110%)
Current input Range: 5A (90~110%)
Input system: Voltage : VT Current : CT
Voltage/Current input terminal: ϕ 4 mm binding post
Frequency: 50/60Hz

Pulse output section

Number of Channels: 4 channels

Reference pulse^{*1,*2}

WH1 : Active Watt-hour(Received)
5 0 0 0 Pulse / k W s
WH2 : Active Watt-hour (Delivered)
5 0 0 0 Pulse / k W s
VarH1 : Reactive Watt-hour(Received)
5 0 0 0 Pulse / k Vars
VarH2 : Reactive Watt-hour(Delivered)
5 0 0 0 Pulse / k Vars

Standard Pulse^{*1,*2}

WH1 : Active Watt-hour (Received)
9 Pulse / 3.6 k W s
WH2 : Active Watt-hour (Delivered)
9 Pulse / 3.6 k W s
VarH1 : Reactive Watt-hour (Received)
9 Pulse / 3.6 k Vars
VarH2 : Reactive Watt-hour (Delivered)
9 Pulse / 3.6 k Vars

Output Signal

Contact or Voltage output selection by toggle switch with a lock

- Voltage (+5V, maximum output current \pm 10mA)
- Non-voltage contact (Open-collector, maximum voltage +24V, maximum Current 20mA)

Pulse duty ratio

Reference pulse : 40 μ s approx.
Standard pulse duty ratio : 50% approx.

Signal Output terminal: ϕ 4 mm Banana socket

Accuracy

	Active Watt-hour	Reactive Watt-hour
Accuracy (at 23°C \pm 2.5°C)	\pm 0.025% ^{*3}	\pm 0.025% ^{*4}
Aging reduction	\pm 0.02% (An initial year) \pm 0.01% (Annually from 2nd year)	

Warm-up requirement

1 hour approx.

Withstand Voltage

Between current input and Case : AC1500V 50/60Hz 1min.
Between input terminal and Case: AC2000V 50/60Hz 1min.
Between voltage input and current input: AC2000V 50/60Hz/1min.

Operating temperature and humidity range

0~40°C 20~80%RH (Non-condensing)

Auxiliary power supply

90~110VAC, 47~63Hz (100VA approx.)

Outside Dimensions and Weight

343(W) \times 132.5(H) \times 376(D)mm(Umbonate sections excluded)
12kg approx.

Standard Accessory

Power Supply Cable 1pc 3 m
Instruction Manual 1 copy

Internal burden

• Voltage Terminal 0.1VA/Circuit
• Current Terminal 0.1VA/Circuit

*1 Reference/Standard Pulse : Voluntary pulse rate of the standard pulse value acceptable as a option.

*2 Pulse output : Internal circuit and output pull-up power supply are insulated by Photo coupler.

*3 At 3 phase 3 wire 100V, 5A, 50/60Hz, PF1

*4 At 3 phase 3 wire 100V, 5A, 50/60Hz, PF0

Specifications may be changed without preliminary notice.