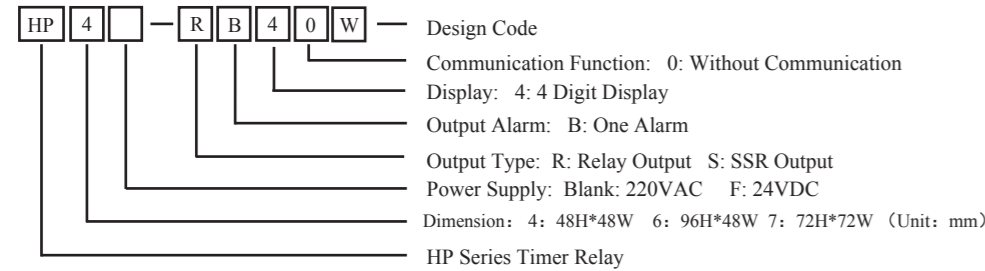


HP Series Timer Relay user Manual



- Features:
- Dual line 4 digit LED display;
 - High timing accuracy;
 - Range of setting time and delay time can be setted freely (11 kinds);
 - Multi-mounting size can be choosed;

1. Model Illustration



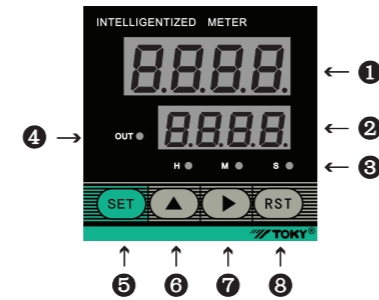
2. Ordering Code

Model	Display	Power Supply	Dimension (mm)	Alarm
HP4-RB40W	4	AC 220V±10% 50Hz	48H*48W	One
HP6-RB40W	4	AC 220V±10% 50Hz	96H*48W	One
HP7-RB40W	4	AC 220V±10% 50Hz	72H*72W	One

3. Technical Specification

Power Supply	AC220V±10% 50Hz
Power Consumption	≤3VA
Mounting Mode	Panel Mount
Timing Range	0.01-99.99S, 0.1-999.9S, 1-9999S, 1-99M59S, 0.01-99.99M, 0.1-999.9M, 1-9999M, 1-99H59M, 0.01-99.99H, 0.1-999.9H, 1-9999H
Timing Accuracy	±0.1%±0.05sec
Reset Mode	Panel reset, External Connection reset, Auto Reset or Power OFF Reset can be choosed
Input Signal	low level effective
Terminal Capacity	3A/250VAC or 6A/30VDC
Pulse Interference (AC)	±1.8KV
Dielectric	AC 1500V 1min
Insulation Impedance	DC 500V ≥ 100MΩ
Ambient Humidity	≤85% RH
Ambient Temperature	0~50°C

4. Panel Instruction



- 1: Timing Value Display Window
- 2: Setting Value Display Window
- 3: Hour (H), Minute (M), Second (S) Indicate Light
- 4: Relay Output Indicate Light
- 5: Function, SET Key
- 6: Increase Key
- 7: Right Shift Key
- 8: Reset Key

5. Operation Sequence

Function Menu

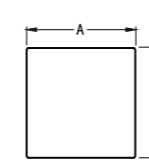
Menu Sequence	Menu Function	Setting Range
Timing Status	Under the condition of timing status, press SET more than 3S to enter into function menu, after parameter modification, press SET for a long time to back to timing status. If there is no any operation for more than 10S, the meter will return back to the timing status automatically (the modification will not be saved)	
rRn1	rRn1: Timing value range choose menu, lower line LED display Max timing value, H,M,S indicate light separately to show the relative units.	99.99S ← 999.9S ← 9999S → 99M59S → 99.99M 9999H ← 999.9H ← 99.99H ← 99H59M ← 9999M ← 999.9M
rRn2	rRn2: Delay time range choose menu, lower line LED display Max delay time value, H,M,S indicate light separately to show the relative units. (F,N mode without this menu)	99.99S ← 999.9S ← 9999S → 99M59S → 99.99M 9999H ← 999.9H ← 99.99H ← 99H59M ← 9999M ← 999.9M
U-d	U-d: Timing mode choose menu	U Add Timing Mode: Timing count value increase from 0 to setting value d Minus Timing Mode: Timing count value decrease from setting value to 0
int	int: Effective pulse width of Input signal choose menu.	1: 1mS 20: 20mS
oUt	oUt: Output Mode choose menu	N: N Mode → F: F Mode C: C Mode ← R: R Mode
StA	StA: Start function	YES: With start function, after power should press or short connect PAUSE terminal, the meter start to work. no: Without start function, the meter will work after power on.
HoLd	HoLd: Power OFF data save choose menu	YES: Power OFF Data save function no: Without Power Off Data save function
LoCK	LoCK: Lock key menu	L-0: Without Lock function L-1: Lock Panel reset L-2: Lock setting value menu + function menu L-3: Lock panel reset + setting value menu + function menu

Setting Value Modify Menu

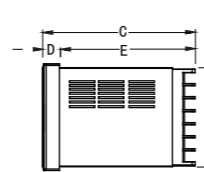
Menu Sequence	Menu Function	Setting Range
Timing Status	Under the condition of Timing status, press to enter into setting value modify menu.	
t.oFF	t.oFF: Relay Timing value setting menu When Timing value ≥ T.off setting value, Relay ON.	The parameter can be setting freely between 0.01S-9999H according to the different timing range that you choosed in function menu rRn1
t.oN	t.oN: Output delay setting menu, relay will reset after Relay OFF time ≥ T.on setting value. (N,F mode without this menu)	The parameter can be setting freely between 0.01S-9999H according to the different timing range that you choosed in function menu rRn2

6. Dimensions (mm)

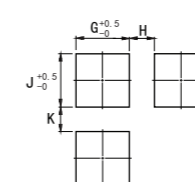
Panel Size



Side Face Size



Mounting Size

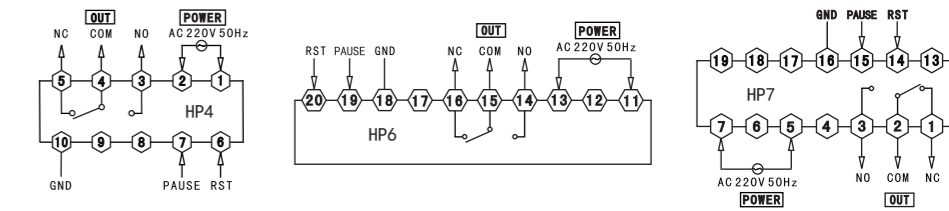


Model	A	B	C	D	E	F	G	H(Min)	J	K(Min)
4:(48*48)	48	48	97.5	6.5	91	45	45.5	25	45.5	25
6:(96*48)	48	96	97.5	9	88.5	89.5	45	25	90	25
7:(72*72)	72	72	97.5	9	88.5	67	67.5	25	67.5	25

7. Output Logic Table

F Mode	Timing Value continue to increase or decrease, output will be kept before input reset.
Power	[Timing diagram showing power pulses]
Pause	[Timing diagram showing pause pulses]
Reset	[Timing diagram showing reset pulses]
Output	[Timing diagram showing output pulses]
Max Timing Value	[Timing diagram showing max timing value]
Setting Value T.off	[Timing diagram showing setting value T.off]
UP 0	[Timing diagram showing UP 0]
Setting Value T.off	[Timing diagram showing setting value T.off]
DOWN 0	[Timing diagram showing DOWN 0]

8. Connection Drawing



Note: If there is any change, please subject to the drawing on the meter!