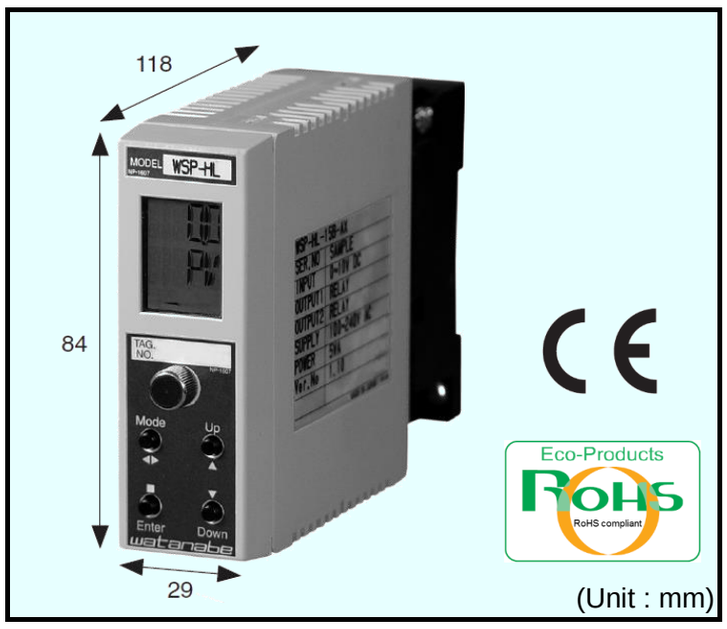
Dual-point Alarm Setter

WSP-HL



This compact plug-in converter receives DC signal input and outputs a relay contact signal or open-collector signal if the DC signal input value exceeds the preset value (2 points).
Input values, alarm setting value, alarm activation direction and parameter change can be monitored on the front LCD panel.

Features

★ Checking input real quantity value in the real quantity value check mode
★ Alarm activation direction and parameters can be changed arbitrarily
★ Both AC and DC power supply are available
★ Long -life design achieves 5-years warranty
★ Easy to maintain by plug-in structure
★ CE approved, RoHS compliant

Ordering code

WSP- H L - □□ □ - □□

Code	Input	Input Resistance
10	0 to 10mVdc	1MΩ
11	0 to 100mVdc	1MΩ
12	0 to 1Vdc	1MΩ
13	0 to 5Vdc	1MΩ
14	1 to 5Vdc	1MΩ
15	0 to 10Vdc	1MΩ
16	0 to 50mVdc	1MΩ
17	0 to 60mVdc	1MΩ
24	0±5Vdc	1MΩ
25	0±10Vdc	1MΩ
32	0 to 1mAdc	100Ω
33	0 to 10mAdc	50Ω
35	0 to 20mAdc	50Ω
36	4 to 20mAdc	50Ω
99 ＊1	Contact us for other than the above Full Scale Range: Current output 20mA or less (Span 1mA or more) Voltage output 10V or less (Span 10mVs or more)	

Code	Power Supply
A	100 to 240Vac ±10% 50/60Hz
D	24Vdc ±10%
8	100 to 120Vdc ±10%

Code	Output Operation
A	2 setpoint, Relay H, H operation
B	2 setpoint, Relay H, L operation
D	2 setpoint, Relay L, L operation
F	2 setpoint, Relay L, H operation
G	2 setpoint, Open collector H, H operation
H	2 setpoint, Open collector H, L operation
I	2 setpoint, Open collector L, L operation
J	2 setpoint, Open collector L, H operation

Code	Test Report
X	None
T	With Test report

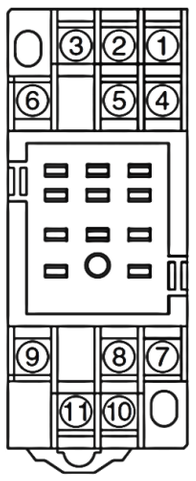
＊1･･･CE approval do not adapt input range code 99.

Applicable Directive (89/336/EEC)
EMI EN61000-6-4
EMS EN61000-6-2
Low voltage directive (73/23/EEC)
EN61010-1

Specifications

Accuracy	±0.1% FS (at 23°C)
Response time	Approx. 50ms
Comparison scheme	Analog comparison scheme
Number of setpoint	2 setpoint
Setting	By LCD display operation
Relay capacity	250Vac 5A, 30Vdc 5A Minimum applicable load : 5V 10mA Electrical life : 100,000 times or more Mechanical life : 50,000,000 times or more
Open collector output	30Vdc 50mA, ON Voltage 0.4V or less
Operation display	Normal operation : Yellow display on LCD Alarm : Red display on LCD
Power failure	Data preservation by internal flash memory
Parameter retention	Cycling capability : Typical 100,000 times, Minimum 10,000 times Retention period : Minimum 100 years
Operating temperature	-5 to +55°C
Operating relative humidity	90% or less (non-condensing)
Temperature coefficient	±0.015% FS of span per °C
Humidity coefficient	±0.15% FS / 10-90% RH
Isolation	Between input, output, and power supply
Insulation resistance	100MΩ or more with a 500Vdc megger Between input, output, and power supply terminal
Dielectric strength	2000Vac for 1 minute
Power consumption	A : 100 to 240Vac ±10% Approx. 4.5VA D : 24Vdc ±10% Approx. 70mA 8 : 110Vdc ±10% Approx. 12mA
Power supply variation	±0.1% FS (within the range of rated voltage)
Dimensions	84(H) X 29.5(W) X 118(D)mm
Weight	Approx. 200g
Structure	Plug-in
Connection	M3 SEMS screw part of the base socket
Material of terminal screw	Chromated iron
Case color and material	Ivory, heat-resistant ABS resin(94V-0)
Mounting	DIN rail or wall surface

Terminal connections



Relay output (Output code : A, B, D, F)

No	Signal	Description
1	INPUT(+)	Input
3	INPUT(-)	
7	No.1 OUTPUT(NO1)	No.1 Alarm Output
8	No.1 OUTPUT(COM1)	
9	No.1 OUTPUT(NC1)	
4	No.2 OUTPUT(NO1)	No.2 Alarm Output
5	No.2 OUTPUT(COM1)	
6	No.2 OUTPUT(NC1)	
2	NC	No connection
10	POWER U(+)	Power Supply
11	POWER V(-)	

Open collector output (Output code : B, H, I, J)

No	Signal	Description
1	INPUT(+)	Input
3	INPUT(-)	
7	No.1 OUTPUT(+)	No.1 Alarm Output
8	No.1 OUTPUT(-)	
4	No.2 OUTPUT(+)	No.2 Alarm Output
5	No.2 OUTPUT(-)	
2	NC	No connection
6		
9		
10	POWER U(+)	Power Supply
11	POWER V(-)	

＊ Specification is subject to change without notice