

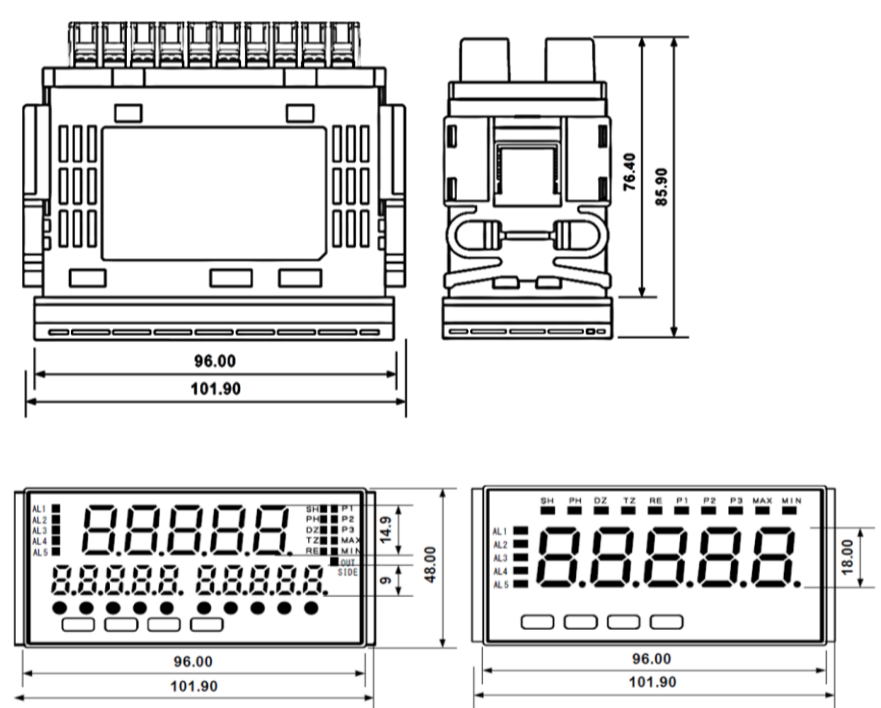
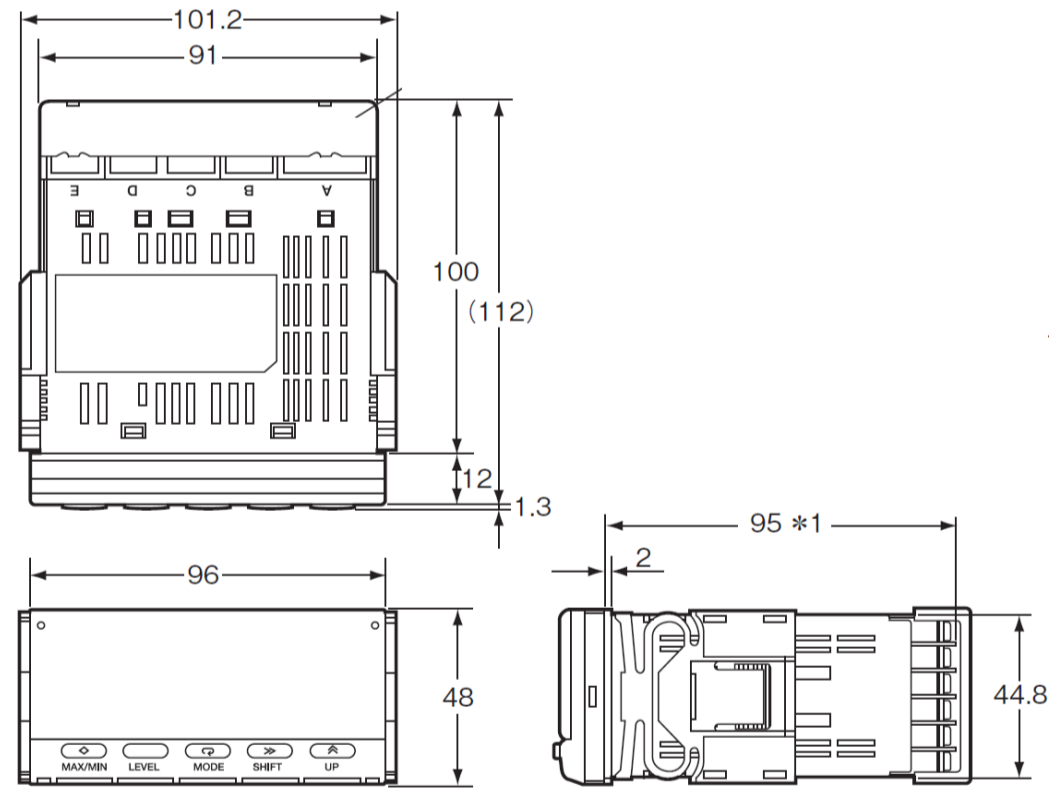


Manufacturer	Watanabe Electric Industry					OMRON					
Model	WPM-1 series (DC input)					K3HB-XVD/XAD (DC input)					
Photo											
Display range	-19999 to 99999 (5 digits)					-19999 to 99999 (5 digits)					
Display	Main display : Red or Green 7 segment LED (height 14.9mm) Sub display : White 7 segment LED (height 9mm), 2 set point display (10 digits)					Main display : Red or Green 7 segment LED (height 14.2mm) Sub display : Red or Green 7 segment LED (height 4.9mm), 1 set point display (5 digits) Position meter Available					
Input range	Input	Range	Measurement range	Impedance	Max. allowable input	Input	Range	Measurement range	Impedance	Max. allowable input	
DC Voltage	DC Voltage	11	±199.99mV	Approx. 10M Ω	±250V	DC Voltage	-	-	-	-	
		12	±1.9999V	Approx. 10M Ω	±250V		C	±1.9999V	More than 1M Ω	-1.9999-2.1999V	
		13	±19.999V	Approx. 10M Ω	±250V		B	±19.999V	More than 1M Ω	-19.999-21.999V	
		14	±199.99V	Approx. 10M Ω	±250V		A	±199.99V	More than 10M Ω	-199.99-219.99V	
		15	±600.0V	Approx. 10M Ω	±600V		-	-	-	-	
	DC Current	DC Current	21	±199.99μA	Approx. 1KΩ	±10mA	DC Current	-	-	-	-
			22	±1.9999mA	Approx. 100Ω	±10mA		C	±1.9999mA	Less than 33Ω	-1.9999-2.1999mA
			23	±19.999mA	Approx. 10Ω	±50mA		B	±19.999mA	Less than 10Ω	-19.999-21.999mA
			24	±199.99mA	Approx. 1Ω	±500mA		A	±199.99mA	Less than 1Ω	-199.99-219.99mA
			25	±1.9999A	Approx. 0.1Ω	±3A		-	-	-	-
	Process signal	Process signal	1V	1-5V	Approx. 1MΩ	±100V	Process signal	D	1.0000-5.0000V	More than 1M Ω	-0.5000-5.5000V
			2V	±5V	Approx. 1MΩ	±100V		-	-	-	-
			3V	±10V	Approx. 1MΩ	±100V		-	-	-	-
			2A	4-20mA	Approx. 10Ω	±50mA		D	4.000-20.000mA	Less than 10Ω	-2.000-22.000mA
	3A	±20mA	Approx. 10Ω	±50mA	-	-	-	-			
Power supply	Code	Power supply voltage			Code	Power supply voltage					
	1	AC100-240V ±10% 50/60Hz				AC100-240	AC100-240V 50/60Hz				
	-					AC/DC24	AC24V 50/60Hz, DC24V				
Functions	Function		Description			Function		Description			
	Scaling function		Available			Scaling function		Available			
	External control		Available			External control		Available			
	Comparative output (HI / LO) (Relay or Photo coupler)		Available (Option) 2 set points, or 4 set points selectable			Comparative output (HI / LO) (Relay or Photo coupler)		Available (Relay)			
	BCD output		Not available			BCD output		Available (Option)			
	Analog output		Available (Option) 0-20mAdc / 4-20mAdc / 0-2Vdc / 0-10Vdc / -10-10Vdc / 1-5Vdc			Analog output		Available (Option) 0-20mAdc / 4-20mAdc / 0-5Vdc / 0-10Vdc / 1-5Vdc			
	RS232C output		Not available			RS232C output		Available (Option)			
	RS485 output		Not available			RS485 output		Available (Option)			
	Auto range function for voltage input		Available (when input range 11-14)								
Dimensions	96mm(W) x 48mm(H) x 85.9mm(D) DIN size					96mm(W) x 48mm(H) x 95mm(D) DIN size					
											
Sampling rate	Max. 250 times per second (4ms)					50 times per second (20ms)					
External control	Select 4 external control and set parameter 1. Pattern select 2. Sample hold 3. Peak hold 4. Digital zero 5. Relay reset					Event input 1. Timing input (Sample hold / Peak hold) 2. Startup compensation timer input 3. Hold input 4. Reset input 5. Forced-zero input (Digital zero) 6. Bank input					
Power consumption	12VA max. at 100Vac 15VA max. at 240Vac					18VA max. at 100 to 240Vac 11VA/7W max. (max load) at 24Vac/dc					
Operating temperature/humidity	-5 to 50°C 35 to 85% (non-condensing)					-10 to 55°C 25 to 85% (non-condensing)					
Built in excitation (External power supply for Sensor)	12Vdc±10% 100mA, 24Vdc±10% 50mA selectable when process signal input (1V, 2V, 3V, 2A, 3A range)					12Vdc±10% 80mA (models with external power supply only)					
Weight	Approx. 250g					Approx. 300g					
Front protection	NEMA 4 (IP66) Front bezel					NEMA 4 (IP66) Front bezel					
CE mark	CE approved					CE. UL approved					