WBGT (in/out door), TG Temp., Humidity/ Air Temp. Dew point Temp. Wet bulb Temp.

HEAT INDEX WBGT METER

Model : WBGT-2009

ISO-9001, CE, IEC1010





The Art of Measurement

HEAT INDEX WBGT METER

Model : WBGT-2009

FEATURES

F.	EATURES	_
*	Introduction :	St
	WBGT (wet-bulb globe temperature) was developed	Ac
	as a monitoring basis at US military training camps	In
	and became widespread for the use in workplaces and	Op
	sports situation It is suggested in the international	Ac
	standard ISO 7243, OSHA (US Occupation Safety),	
	Japan Society for Occupational Health and the SMA (
	Sports Medicine Australia) in establishing the	
	permissible heat exposure limits in health , sports or	
	other physical activities.	
*	Measurement : WBGT value (Indoor/Outdoor Wet bulb	
	globe temperature), Black globe temperature, Humidity,	EL
	Air temperature, Wet bulb temperature, Dew point Temp	w
*	Adjustable WBGT alarm setting, if the WBGT value over	Ra
	the alarm threshold, the buzzer will sound along with	
	the flashing Display.	
*	Using to control and monitor of physical activity in hot	
	environment to limit the danger of heat related	Ac
	injuries.	*
*	Globe temperature measurement use the Pt sensor,	
	high accuracy.	
*	Fast humidity measuring response time.	Ac
*	Direct measurement of the radiation effect with a brass	*
	black ball in 75 mm dia.	

* Sensor protecting mechanism.

Data error no. 0.1% of total saved data max. Memory Card SD memory card. 1 GB to 16 GB Advanced * Set clock time (Year/Month/Date, Hour/Minute/ Second) * Set WBGT alarm value * Decimal point of SD card setting * Auto power OFF management * Set beep Sound ON/OFF * Set beep Sound ON/OFF * Select the temperature unit to °C or °F. * Set sampling time * So memory card Format Data Hold Freeze the display reading. Memory Recall Maximum & Minimum value. Sampling Time Approx. 1 second. of Display Approx. 1 second. Data Output RS 232/USB PC computer interface. * Connect the optional RS232 cable UPCB-02 will get the RS232 plug. * Connect the optional USB cable USB-01 will get the USB plug. Operating 0 to 50 °C. Temperature Operating Less than 85% R.H. Humidity Power Supply * Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent. * DC 9V adapter input. (AC/DC power adapter is optional). Power Current Normal operation (w/o SD card save data and LCD Backlight is OFF) : Approx. DC 5 mA.				
Advanced * Set clock time (Year/Month/Date, Hour/Minute/ Second) setting * Set WBGT alarm value * Decimal point of SD card setting * Auto power OFF management * Set beep Sound ON/OFF * Select the temperature unit to °C or °F. * Set sampling time * Select the temperature unit to °C or °F. * Set sampling time * So memory card Format Data Hold Freeze the display reading. Memory Recall Maximum & Minimum value. Sampling Time Approx. 1 second. of Display Poernect the optional RS232 cable Data Output RS 232/USB PC computer interface. * Connect the optional USB cable USB-01 will get the RS232 plug. * Connect the optional USB cable USB-01 will get the USB plug. Operating 0 to 50 °C. Temperature USB-01 will get the USB plug. Operating Less than 85% R.H. Humidity * Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCS, or equivalent. *.DC 9V adapter input. (AC/DC power adapter is optional). Power Current Normal operation (w/o SD card save data and LCD Backlight on, the power consumption will increase approx. <td< td=""><td>Data error no.</td><td>0.1% of total</td><td>saved data max.</td></td<>	Data error no.	0.1% of total	saved data max.	
setting Hour/Minute/ Second) Set WBGT alarm value Decimal point of SD card setting Auto power OFF management Set beep Sound ON/OFF Select the temperature unit to °C or °F. Set sampling time SD memory card Format Data Hold Freeze the display reading. Memory Recall Maximum & Minimum value. Sampling Time Approx. 1 second. Approx. 1 second. Sampling Time Connect the optional RS232 cable UPCB-02 will get the RS232 plug. Connect the optional RS232 cable UPCB-02 will get the USB plug. Operating USB-01 will get the USB plug. Operating Less than 85% R.H. Humidity Power Supply Analysis Aa) x 6 PCs, or equivalent. CUM3, AA) x 6 PCs, or equivalent. CUM3, AA) x 6 PCs, or equivalent. Approx. DC 5 mA. Int LCD backlight on, the power consumption will increase approx. 11 mA. Weight 489 g/1.08 LB. Dimension Meter 177 x 68 x 45 mm Black brass (7.0 x 2.7x 1.9 inch) ball Round, 75 mm dia	Memory Card	SD memory c	ard. 1 GB to 16 GB	
 Set WBGT alarm value * Set WBGT alarm value * Decimal point of SD card setting * Auto power OFF management * Set beep Sound ON/OFF * Select the temperature unit to °C or °F. * Set sampling time * SD memory card Format Data Hold Freeze the display reading. Memory Recall Maximum & Minimum value. Sampling Time Approx. 1 second. of Display Data Output RS 232/USB PC computer interface. * Connect the optional RS232 cable UPCB-02 will get the RS232 plug. * Connect the optional USB cable USB-01 will get the USB plug. Operating O to 50 °C. Power Supply * Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent. * .DC 9V adapter input. (AC/DC power adapter is optional). Power Current Normal operation (w/o SD card save data and LCD Backlight so FF) : Approx. DC 5 mA. * .If LCD backlight on, the power consumption will increase approx. 11 mA. Weight 489 g/1.08 LB. Dimension Meter 177 x 68 x 45 mm Black brass (7.0 x 2.7x 1.9 inch) 	Advanced	* Set clock time	e (Year/Month/Date,	
 Decimal point of SD card setting Auto power OFF management Set beep Sound ON/OFF Select the temperature unit to °C or °F. Set sampling time SD memory card Format Data Hold Freeze the display reading. Memory Recall Maximum & Minimum value. Sampling Time Approx. 1 second. of Display Data Output RS 232/USB PC computer interface. <i>connect the optional RS232 cable</i> <i>UPCB-02 will get the RS232 plug.</i> <i>connect the optional RS232 cable</i> <i>UPCB-02 will get the S232 plug.</i> <i>connect the optional USB cable</i> <i>USB-01 will get the USB plug.</i> Operating O to 50 °C. Temperature Operating Less than 85% R.H. Humidity Power Supply * Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent. * DC 9V adapter input. (AC/DC power adapter is optional). Power Current Normal operation (w/o SD card save data and LCD Backlight so FF) : <i>Approx. DC 5 mA.</i> <i>If LCD backlight on, the power consumption will increase approx.</i> <i>I1 mA.</i> Weight 489 g/1.08 LB. Dimension Meter 177 x 68 x 45 mm Black brass (7.0 x 2.7x 1.9 inch) ball Round, 75 mm dia 	setting	Hour/Minute/ Second)		
 * Auto power OFF management * Set beep Sound ON/OFF * Select the temperature unit to °C or °F. * Set sampling time * SD memory card Format Data Hold Freeze the display reading. Memory Recall Maximum & Minimum value. Sampling Time Approx. 1 second. of Display Data Output RS 232/USB PC computer interface. * Connect the optional RS232 cable UPCB-02 will get the RS232 plug. * Connect the optional USB cable USB-01 will get the USB plug. Operating O to 50 °C. Temperature Operating Less than 85% R.H. Humidity Power Supply * Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent. * DC 9V adapter input. (AC/DC power adapter is optional). Power Current Normal operation (w/o SD card save data and LCD Backlight so FF) : Approx. DC 5 mA. * If LCD backlight on, the power consumption will increase approx. 11 mA. Weight 489 g/1.08 LB. Dimension Meter 177 x 68 x 45 mm Black brass (7.0 x 2.7x 1.9 inch) ball 		* Set WBGT ala	arm value	
* Set beep Sound ON/OFF * Select the temperature unit to °C or °F. * Select the temperature unit to °C or °F. * Set sampling time * SD memory card Format Data Hold Freeze the display reading. Memory Recall Maximum & Minimum value. Sampling Time of Display Data Output RS 232/USB PC computer interface. * Connect the optional RS232 cable UPCB-02 will get the RS232 plug. * Connect the optional USB cable USB-01 will get the USB plug. Operating 0 to 50 °C. Temperature Operating Less than 85% R.H. Humidity Power Supply * Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent. * DC 9V adapter input. (AC/DC power adapter is optional). Power Current Normal operation (w/o SD card save data and LCD Backlight so FF) : Approx. DC 5 mA. * .If LCD backlight on, the power consumption will increase approx. 11 mA. <t< td=""><td></td><td>* Decimal point</td><td>t of SD card setting</td></t<>		* Decimal point	t of SD card setting	
* Select the temperature unit to °C or °F. * Set sampling time * SD memory card Format Data Hold Freeze the display reading. Memory Recall Maximum & Minimum value. Sampling Time Approx. 1 second. of Display Image: second of the optional RS232 cable Data Output RS 232/USB PC computer interface. * Connect the optional RS232 cable UPCB-02 will get the RS232 plug. * Connect the optional USB cable USB-01 will get the USB plug. Operating 0 to 50 °C. Temperature Image: second of the optional USB cable Operating Less than 85% R.H. Humidity Image: second of the optional USD card save Power Supply * Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent. * .DC 9V adapter input. (AC/DC power adapter is optional). Power Current Normal operation (w/o SD card save data and LCD Backlight is OFF) : Approx. DC 5 mA. * .If LCD backlight on, the power consumption will increase approx. 11 mA. Weight 489 q1.08 LB. Dimension Meter 177 x 68 x 45 mm Black brass (7.0 x 2.7x 1.9 inch) ball Round, 75 mm dia </td <td></td> <td>* Auto power 0</td> <td>DFF management</td>		* Auto power 0	DFF management	
* Set sampling time * SD memory card Format Data Hold Freeze the display reading. Memory Recall Maximum & Minimum value. Sampling Time Approx. 1 second. of Display Processory Data Output RS 232/USB PC computer interface. * Connect the optional RS232 cable UPCB-02 will get the RS232 plug. * Connect the optional USB cable USB-01 will get the USB plug. Operating 0 to 50 °C. Temperature Power Supply * Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent. * DC 9V adapter input. (AC/DC power adapter is optional). Power Current Normal operation (w/o SD card save data and LCD Backlight is OFF) : Approx. DC 5 mA. * .If LCD backlight on, the power consumption will increase approx. 11 mA. Weight 489 g1.08 LB. Dimension Meter 177 x 68 x 45 mm Black brass (7.0 x 2.7x 1.9 inch) ball Round, 75 mm dia		* Set beep Sou	nd ON/OFF	
* SD memory card Format Data Hold Freeze the display reading. Memory Recall Maximum & Minimum value. Sampling Time Approx. 1 second. of Display Image: Computer interface. Data Output RS 232/USB PC computer interface. * Connect the optional RS232 cable UPCB-02 will get the RS232 plug. * Connect the optional USB cable USB-01 will get the USB plug. Operating 0 to 50 °C. Temperature Image: Computer input. (AC/DC power adapter is optional). Power Supply * Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent. * .DC 9V adapter input. (AC/DC power adapter is optional). Power Current Normal operation (w/o SD card save data and LCD Backlight is OFF) : Approx. DC 5 mA. * .If LCD backlight on, the power consumption will increase approx. 11 mA. Weight 489 g1.08 LB. Dimension Meter 177 x 68 x 45 mm Black brass (7.0 x 2.7x 1.9 inch) ball Round, 75 mm dia		* Select the ter	mperature unit to °C or °F.	
Data Hold Freeze the display reading. Memory Recall Maximum & Minimum value. Sampling Time Approx. 1 second. of Display Image: Computer interface. Data Output RS 232/USB PC computer interface. * Connect the optional RS232 cable UPCB-02 will get the RS232 plug. * Connect the optional USB cable USB-01 will get the USB plug. Operating 0 to 50 °C. Temperature Image: Comparison of the extra state optional VSD card save Mumidity * Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent. * .DC 9V adapter input. (AC/DC power adapter is optional). Power Supply * Normal operation (w/o SD card save data and LCD Backlight is OFF) : Approx. DC 5 mA. * .If LCD backlight on, the power consumption will increase approx. 11 mA. Weight 489 q1.08 LB. Dimension Meter 177 x 68 x 45 mm Black brass (7.0 x 2.7x 1.9 inch) ball Round, 75 mm dia				
Memory Recall Maximum & Minimum value. Sampling Time Approx. 1 second. of Display RS 232/USB PC computer interface. <i>Barbing Time RS 232/USB PC computer interface. Connect the optional RS232 cable UPCB-02 will get the RS232 plug. Connect the optional USB cable USB-01 will get the USB plug.</i> Operating 0 to 50 °C. Temperature 0 Operating Less than 85% R.H. Humidity * .Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent. * .DC 9V adapter input. (AC/DC power adapter is optional). Power Current Normal operation (w/o SD card save data and LCD Backlight is OFF) : <i>Approx. DC 5 mA.</i> * .If LCD backlight on, the power consumption will increase approx. 11 mA. Weight 489 q1.08 LB. Dimension Meter 177 x 68 x 45 mm Black brass (7.0 x 2.7x 1.9 inch) ball Round, 75 mm dia		* SD memory of	ard Format	
Sampling Time Approx. 1 second. of Display RS 232/USB PC computer interface. * Connect the optional RS232 cable UPCB-02 will get the RS232 plug. * Connect the optional USB cable USB-01 will get the USB plug. Operating 0 to 50 °C. Temperature Operating Less than 85% R.H. Humidity * .Alkaline or heavy duty DC 1.5 V battery Yower Supply * .Alkaline or heavy duty DC 1.5 V battery Yower Supply * .Alkaline or heavy duty DC 1.5 V battery Yower Supply * .Alkaline or heavy duty DC 1.5 V battery Yower Supply * .Alkaline or heavy duty DC 1.5 V battery Yower Current Normal operation (w/o SD card save Adata and LCD Backlight is OFF) :	Data Hold	Freeze the dis	splay reading.	
of Display Data Output RS 232/USB PC computer interface. * Connect the optional RS232 cable UPCB-02 will get the RS232 plug. * Connect the optional USB cable USB-01 will get the USB plug. Operating Operating UCB-02 will get the USB plug. Operating Uss-01 will get the USB plug. Operating Less than 85% R.H. Humidity Power Supply * Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent. * DC 9V adapter input. (AC/DC power adapter is optional). Power Current Normal operation (w/o SD card save data and LCD Backlight is OFF) : Approx. DC 5 mA. * .If LCD backlight on, the power consumption will increase approx. 11 mA. Weight 489 q1.08 LB. Dimension Meter 177 x 68 x 45 mm Black brass (7.0 x 2.7x 1.9 inch) ball Round, 75 mm dia	Memory Recall	Maximum & N	linimum value.	
Data Output RS 232/USB PC computer interface. * Connect the optional RS232 cable UPCB-02 will get the RS232 plug. * Connect the optional USB cable USB-01 will get the USB plug. Operating 0 to 50 °C. Temperature Operating Less than 85% R.H. Humidity Power Supply * Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent. * .DC 9V adapter input. (AC/DC power adapter is optional). Power Current Normal operation (w/o SD card save data and LCD Backlight is OFF) : Approx. DC 5 mA. * .If LCD backlight on, the power consumption will increase approx. 11 mA. Weight 489 g1.08 LB. Dimension Meter 177 x 68 x 45 mm Black brass (7.0 x 2.7x 1.9 inch) ball Round, 75 mm dia	Sampling Time	Approx. 1 sec	ond.	
* Connect the optional RS232 cable UPCB-02 will get the RS232 plug. * Connect the optional USB cable USB-01 will get the USB plug. Operating Operating Less than 85% R.H. Humidity Power Supply * Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent. * .DC 9V adapter input. (AC/DC power adapter is optional). Power Current Normal operation (w/o SD card save data and LCD Backlight is OFF) : Approx. DC 5 mA. * .If LCD backlight on, the power consumption will increase approx. 11 mA. Weight 489 g1.08 LB. Dimension Meter 177 x 68 x 45 mm Black brass (7.0 x 2.7x 1.9 inch) ball Round, 75 mm dia	of Display			
UPCB-02 will get the RS232 plug. * Connect the optional USB cable USB-01 will get the USB plug. Operating 0 to 50 °C. Temperature Operating Less than 85% R.H. Humidity Power Supply * Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent. * .DC 9V adapter input. (AC/DC power adapter is optional). Power Current Normal operation (w/o SD card save data and LCD Backlight is OFF) : Approx. DC 5 mA. * .If LCD backlight on, the power consumption will increase approx. 11 mA. Weight 489 g1.08 LB. Dimension Meter 177 x 68 x 45 mm Black brass (7.0 x 2.7x 1.9 inch) ball Round, 75 mm dia	Data Output	RS 232/USB PC computer interface.		
* Connect the optional USB cable USB-01 will get the USB plug. Operating 0 to 50 °C. Temperature Operating Less than 85% R.H. Humidity Power Supply * .Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent. * .DC 9V adapter input. (AC/DC power adapter is optional). Power Current Normal operation (w/o SD card save data and LCD Backlight is OFF) : Approx. DC 5 mA. * .If LCD backlight on, the power consumption will increase approx. 11 mA. Weight 489 g/1.08 LB. Dimension Meter 177 x 68 x 45 mm Black brass (7.0 x 2.7x 1.9 inch) ball Round, 75 mm dia		* Connect the	optional RS232 cable	
USB-01 will get the USB plug. Operating 0 to 50 °C. Temperature		UPCB-02 will get the RS232 plug.		
Operating Temperature 0 to 50 °C. Operating Humidity Less than 85% R.H. Power Supply * .Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent. * .DC 9V adapter input. (AC/DC power adapter is optional). Power Current Normal operation (w/o SD card save data and LCD Backlight is OFF) : Approx. DC 5 mA. * .If LCD backlight on, the power consumption will increase approx. 11 mA. Weight 489 g/1.08 LB. Dimension Meter 177 x 68 x 45 mm Black brass ball Round, 75 mm dia		* Connect the optional USB cable		
Temperature Operating Less than 85% R.H. Humidity * Power Supply *.Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent. *.DC 9V adapter input. (AC/DC power adapter is optional). Power Current Normal operation (w/o SD card save data and LCD Backlight is OFF) : Approx. DC 5 mA. *.If LCD backlight on, the power consumption will increase approx. 11 mA. Weight 489 g1.08 LB. Dimension Meter 177 x 68 x 45 mm Black brass Black brass (7.0 x 2.7x 1.9 inch) ball Round, 75 mm dia		USB-01 will get the USB plug.		
Operating Humidity Less than 85% R.H. Power Supply *.Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent. *.DC 9V adapter input. (AC/DC power adapter is optional). Power Current Normal operation (w/o SD card save data and LCD Backlight is OFF) : Approx. DC 5 mA. *.If LCD backlight on, the power consumption will increase approx. 11 mA. Weight 489 g1.08 LB. Dimension Meter 177 x 68 x 45 mm Black brass (7.0 x 2.7x 1.9 inch) ball Round, 75 mm dia	Operating	0 to 50 ℃.		
Humidity Power Supply *.Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent. *.DC 9V adapter input. (AC/DC power adapter is optional). Power Current Normal operation (w/o SD card save data and LCD Backlight is OFF) : Approx. DC 5 mA. *.If LCD backlight on, the power consumption will increase approx. 11 mA. Weight 489 g/1.08 LB. Dimension Meter 177 x 68 x 45 mm Black brass Black brass (7.0 x 2.7x 1.9 inch) ball Round, 75 mm dia	Temperature			
Power Supply *.Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent. *.DC 9V adapter input. (AC/DC power adapter is optional). Power Current Normal operation (w/o SD card save data and LCD Backlight is OFF) : Approx. DC 5 mA. *.If LCD backlight on, the power consumption will increase approx. 11 mA. Weight 489 g/1.08 LB. Dimension Meter 177 x 68 x 45 mm Black brass (7.0 x 2.7x 1.9 inch) ball Round, 75 mm dia	Operating	Less than 85%	% R.H.	
(UM3, AA) x 6 PCs, or equivalent. *.DC 9V adapter input. (AC/DC power adapter is optional). Power Current Normal operation (w/o SD card save data and LCD Backlight is OFF) : Approx. DC 5 mA. *.If LCD backlight on, the power consumption will increase approx. 11 mA. Weight 489 g/1.08 LB. Dimension Meter 177 x 68 x 45 mm Black brass (7.0 x 2.7x 1.9 inch) ball Round, 75 mm dia	Humidity			
*.DC 9V adapter input. (AC/DC power adapter is optional). Power Current Normal operation (w/o SD card save data and LCD Backlight is OFF) : Approx. DC 5 mA. *.If LCD backlight on, the power consumption will increase approx. 11 mA. Weight 489 g/1.08 LB. Dimension Dimension Meter 177 x 68 x 45 mm Black brass (7.0 x 2.7x 1.9 inch) ball Round, 75 mm dia	Power Supply	*.Alkaline or heavy duty DC 1.5 V battery		
adapter is optional). Power Current Normal operation (w/o SD card save data and LCD Backlight is OFF) : <u>Approx. DC 5 mA.</u> * .If LCD backlight on, the power consumption will increase approx. 11 mA. Weight 489 g/1.08 LB. Dimension Meter 177 x 68 x 45 mm Black brass (7.0 x 2.7x 1.9 inch) ball Round, 75 mm dia		(UM3, AA) x 6 PCs, or equivalent.		
Power Current Normal operation (w/o SD card save data and LCD Backlight is OFF) : <u>Approx. DC 5 mA.</u> * .If LCD backlight on, the power consumption will increase approx. 11 mA. Weight 489 g/1.08 LB. Dimension Meter 177 x 68 x 45 mm Black brass (7.0 x 2.7x 1.9 inch) ball Round, 75 mm dia		*.DC 9V adapter input. (AC/DC power		
data and LCD Backlight is OFF) : Approx. DC 5 mA. *.If LCD backlight on, the power consumption will increase approx. 11 mA. Weight 489 g/1.08 LB. Dimension Meter Black brass (7.0 x 2.7x 1.9 inch) ball Round, 75 mm dia		adapter is optional).		
Approx. DC 5 mA. * .If LCD backlight on, the power consumption will increase approx. 11 mA. Weight 489 g/1.08 LB. Dimension Meter 177 x 68 x 45 mm Black brass (7.0 x 2.7x 1.9 inch) ball Round, 75 mm dia	Power Current	Normal opera	tion (w/o SD card save	
* . If LCD backlight on, the power consumption will increase approx. 11 mA. Weight 489 g/1.08 LB. Dimension Meter 177 x 68 x 45 mm Black brass (7.0 x 2.7x 1.9 inch) ball Round, 75 mm dia		data and LCD Backlight is OFF) :		
consumption will increase approx. 11 mA. Weight 489 g/1.08 LB. Dimension Meter Black brass (7.0 x 2.7x 1.9 inch) ball Round, 75 mm dia		•		
11 mA. Weight 489 g/1.08 LB. Dimension Meter 177 x 68 x 45 mm Black brass (7.0 x 2.7x 1.9 inch) ball Round, 75 mm dia				
Weight 489 g/1.08 LB. Dimension Meter 177 x 68 x 45 mm Black brass (7.0 x 2.7x 1.9 inch) ball Round, 75 mm dia				
Dimension Meter 177 x 68 x 45 mm Black brass (7.0 x 2.7x 1.9 inch) ball Round, 75 mm dia		11 mA.		
Black brass (7.0 x 2.7x 1.9 inch) ball Round, 75 mm dia	Weight	489 g/1.08 LE	3.	
ball Round, 75 mm dia	Dimension	Meter	177 x 68 x 45 mm	
		Black brass	(7.0 x 2.7x 1.9 inch)	
* Appearance and specifications listed in this brochure are subject to ch		ball	Round, 75 mm dia	
	* Appearance and	specifications list	L ted in this brochure are subject to cha	

Standard	* Instruction manual1 PC
Accessories	* Black brass ball (with sensor) 1 PC
Included	* Soft carrying case, CA-05B1 PC
Optional	* SD Card (2 GB)
Accessories	* AC to DC 9V adapter.
	* USB cable, USB-01.
	* Data acquisition software,SW-U801-WIN.
	* Excel data acquisition software, SW-E802.
	* Hard carrying case, CA-08,
	Size : 370 x 310 x 115 mm.

LECTRICAL SPECIFICATIONS (23±5°C)

Wet bulb globe temperature (WBGT)				
Range	°C	Indoor 0 °C to 59 °C		
		Outdoor	0 ℃ to 56 ℃	
	°F	Indoor	32 to 138 °F	
		Outdoor	32 to 132 °F	
Accuracy	°C	± 1 ℃ (15 to 59 ℃)		
* Indoor		± 1.5 ℃ (Others)		
	°F	± 1.8 °F	(59 to 138 °F)	
		± 2.7 °F	(Others)	
Accuracy	°C	± 1.5 °C	(15 to 56 °C)	
* Outdoor		± 2 ℃ (Others)		
	°F	± 2.7 °F	(59 to 132 °F)	
		± 3.6 °F	(Others)	

WBGT Formula :	
Indoor	WBGT= 0.7WB + 0.3TG
(Outdoor and no sun)	
Outdoor	WBGT= 0.7WB + 0.2TG + 0.1TA
(Outdoor and full sun)	

Air temperature (TA)			
Range	°C	0 to 50 °C	
	°F	32 to 122 °F.	
Resolution	°C	0.1 °C	
	°F	0.1 °F	
Accuracy	°C	± 0.8 °C	
@ 15 to 40 °C	°F	± 1.5 °F	

Range	°C	0 to 80 ℃
	°F	32 to 176 °F.
Resolution	°C	0.1 ℃
	°F	0.1 °F
Accuracy	°C	± 0.6 °C
@ 15 to 40 °C	°F	± 1.1 °F

Humidity		
Range	5 % to 95 % R.H.	
Resolution	0.1 % R.H.	
Accuracy	≧70% RH :	
-	± (3% reading + 1% RH).	
	< 70% RH :	
	± 3% RH.	

°C	nt Temp. Range	-25.3 ℃ to 48.9 ℃	
	Resolution	0.1 °C	
°F	Range	-13.5 °F to 120.1 °F.	
	Resolution	0.1 °F.	
Remark :	* Dew Point Temp.	value is calculated from the	
	Humidity/Air Tem	p. measurement automatically.	
	* The Dew Point Temp. accuracy is sum accuracy value		
	of Humidity & Air	Temperature measurement	

°C	Range	-21.6 ℃ to 50.0 ℃		
	Resolution	0.1 °C		
°F Range		-6.9 °F to 122.0 °F.		
	Resolution	0.1 °F.		
Remark : * Wet bulb display value is calculated from the Humidity/Air Temp. measurement automatically.				
* The Dew Point accuracy is sum accuracy value of				
Humidity & Air temperature measurement				

Recommendations to heat exposure level for working and physical activity. (Permissible heat exposure threshold limit)

Work/rest regimen (Each hour)	Light	Moderate	Heavy
Continuous work	30 ℃	26.7 ℃	25 ℃
	(86 °F)	(80 °F)	(77 °F)
75% work, 25% rest	30.6 ℃	28 ℃	25.9 ℃
	(87 °F)	(82 °F)	(78 °F)
50% work, 50% rest	31.4 ℃	29.4 ℃	27.9 ℃
	(89 °F)	(85 °F)	(82 °F)
25% work, 75% rest	32.2 ℃	31.1 ℃	30 ℃
	(90 °F)	(88 °F)	(86 °F)
Source : AGGIH 1992 (Governmental			e of

WBGT INDEX and PHYSICAL EXERCISE

WBGT	Flag	Activity Intensity
< 26.7 °C	White	Normal activity.
(< 80 °F)		Caution should be taken.
26.7 to 29.4 °C	Green	Descretion is required
(80 to 84.9 °F)		in planning intense
		physical activity.
29.5 to 31 °C	Yellow	Intense activity for new
(85 to 87.9 °F)		and unacclimatized persons
		should be curtailed.
31.1 to 32.2 °C	Red	Intense exercise must be
(88 to 89.9 °F)		curtailed for those
		with less than 12 weeks
		training in hot weather.
		Be on high alert
≧ 32.2 °C	Black	Cancel all outdoor
(\geq 90 $^{\circ}\mathrm{F}$)		exercise.

 * Appearance and specifications listed in this brochure are subject to change without notice.

1209-WBGT2009