MASTECH®

MS6253A/B

Digital Anemometer
User Manual

Specifications are subject to change without notification.

Thank you very much for your patronage and choosing our products. Before you use this product please read this manual carefully as it will familiarize you with the correct operating procedure of our MASTECH product.

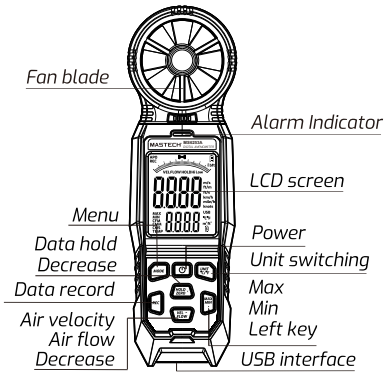
⚠ ***Notice**: Before using this instrument, please read this manual carefully.*

Product Features

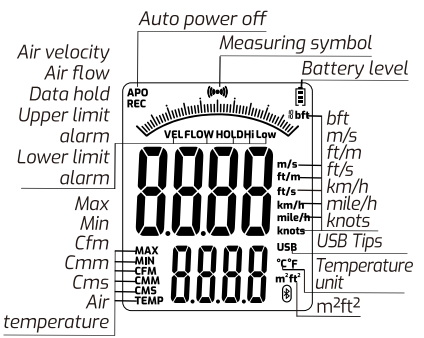
- *Air velocity, air temperature and air flow measurement;*
- *With data hold, max/min/avg measurement function;*
- *Auto power off and cancel auto power off function;*
- *With data records download and real-time PC connection function, it can display real-time data sheet and real-time data charts; export and print data sheet and charts; PC software is suitable for Win7, Win8, Win10 (only MS6253B);*
- *The upper and lower limit can be set separately. When over upper lower limit, there will be a buzzer alarm sound, and the the alarm light will flash;*
- *Analog bar scale indication and low battery indication function.*

Panel Instruction

MS6253A/B



Display



Specification

Model	*MS6253A*	*MS6253B*
Measurement method	*Integral type*	
Air velocity	*Range*	*0.06~45.0m/s*
	accuracy	*±0.2 + (±2%readings)*
	resolution	*0.01/0.1/1*
Air temperature	*Range*	*0~45°C (32.0 ~ 113.0°F)*
	accuracy	*±2°C(±3.6°F)*
	resolution	*0.1/1*
Display	*4 digits, max 9999*	
Sensor	*Infrared laser tube cutting method*	
Sampling rate	*2 times/s*	
Repeated test deviation	*±2%*	
Data logger	*1000 groups*	
USB connection	*-*	*√*
Synchronous update	*Refer to PC information for program update*	
Auto power off	*15 mins (can be canceled)*	
Working environment	*-10~50°C, max 80%RH, indoor altitude<2000m*	
Storage environment	*-10~50°C, max 70%RH (battery removed)*	
Product size	*239 x 73 x 35mm*	
Screen size	*53 x 44mm*	
Weight	*Approx. 210g (battery not included)*	
Power	*3 x 1.5V AAA (LR06) battery UCB micro interface 5V*	

Air velocity

Unit	Range	Resolution	Min value	Accuracy
m/s	0.06~45.0	0.001/0.1/1	0.06	±0.2+ (±2% reading)
km/h	1.0~162.0		1.0	±0.7+ (±2% reading)
ft/m	10~8858		10	±20 (±2% reading)
ft/s	1.0~147.6		1	±0.2+ (±2% reading)
mile/h	1.0~100.6		0.1	±0.2+ (±2% reading)
knots	0.1~ 84.48		0.1	±0.2+ (±2% reading)
Bft	0 - 12			

m/s, km/h, ft/min, mile/h, knots, bft.
Unit conversion:
1m/s=3.6km/h=196.85ft/min=3.280ft/s=
2.237mile/h=1.944knots
1Knots = 0.7234710361(Bft)

Air flow

Unit	Range	Resolution
CFM	0-9999ft³ /min	0.001-100
CMM	0-9999m³/min	0.001-100
CMS	0-9999m³/s	0.001-100

CFM=AIr velocity (ft/min) x Area (ft²)
CMM=Air velocity (m/s) x Area (m²)x60
CMS=Air velocity (m/s) x Area (m²)
CFM (Cubic feet per minute)
CMM (Cubic meter per minute)
CMS (Cubic meter per second)

Air temperature

Unit	Range	Resolution	Accuracy
°C/°F	0-45°C (32.0-113.0°F)	0.1/1	±2°C (±3.6°F)

Button Function Description

⏻ : Power button, long press to turn-on and tap to turn-off;

HOLD ZERO▲ : Data hold and clear the data records, tap to turn on and turn off data hold; Under the data storage window, long press to clear the data records. Press▲to increase the data, and long press for accumulation;

UNIT °C/°F : Air velocity and air flow units switching; long press＞2s to switch the temperature unit;

REC : Data logger,long press≥2s to start the data recording, short press to stop and restart, then long press≥2s to close the data record;

MAX MIN ◀ : Short-press to cycle among the maximum value and minimum value, then the sub-window will demonstrate the value.◀uses to adjust the air volume area and the alarm value, pressing to adjust the carry, and then press the▲and▼keys to adjust the value;

VEL▼ FLOW : VEL refers to air velocity, FLOW refers to air flow.▼refers to decrease data, long press to decrease;

MODE : Menu button;

Press the 1st time to enter the air flow cross-sectional area setting, short press UNIT to switch between cubic feet and square meters. Use the up and down and left keys to adjust the value;

Press the 2nd time to enter the REC data recording interval time adjustment. You can adjust the recording interval time through the up and down keys. The default value is 5s, 10s, 30s, 60s, 30mins, 60mins, 12h and 24h, 8 levels in total;

Press the 3rd time to enter the data record storage interface, the REC symbol is displayed, and the number of records is displayed at the bottom. You can view the record groups by pressing the up and down buttons. Under this menu, long press the ZERO button ≥2s to clear the stored data;

Press the 4th time to enter the HI over alarm setting, the default is to close the DIS state, press the up and down buttons to open , En refers to open;

Press the 5th time to enter the low alarm value setting, the default is to close the DIS state, press the up and down buttons to open,En refers to ope;

Press the 6th time to enter and exit the menu. Under any menu, long press MODE>2s to exit the menu and save the data.

Note: The recorded data will be saved to avoid lost after power-off or replace the battery.

Measurement Method

- Press⏻to turn on the meter;
- Refer to the function description of each button, press the function button to enter each measurement function;
- Check the measured value on the LCD display;
- Measuring done, press the power button to turn it off.

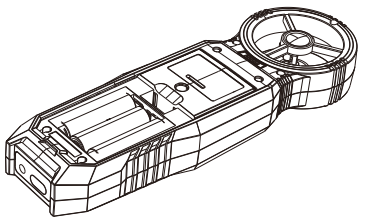
Auto Power Off and Cancel Auto Power Off

- The auto power off function switches on by default , the screen shows the APO symbol when turning on the meter. Only if you stop using it for 15 minutes will it trigger the automatic power off mode;
- If you need to cancel the automatic shutdown function, press HOLD and POWER button to turn on the meter, the APO symbol will not appear and the automatic power off function is canceled. The auto power of function can be restored as long as restart the meter;
- When the meter turns on the auto shutdown function, the display screen shows the APO symbol, APO symbol will disappear once canceled the auto shutdown function;
- The meter will not automatically power off even if the APO symbol is on under USB powered mode.

Battery Replacement

- *When low battery appeared, the battery level shows empty, indicating that the battery needs to be replaced;*
- *Replace the 3pcs AAA batteries by removing the battery compartment cover, please pay attention to the battery polarity when placing the battery into the compartment;*
- *Ensure that the compartment cover is securely fastened when finished.*

Remark: *when the battery is lower than about 3.8V, the battery low voltage prompt.*



Maintenance

- *Do not measure for a long time under high temperature and high humidity environment;*
- *Regular calibrated is needed to maintain the accuracy of the device;*
- *Please remove the battery if not used for a long time;*
- *If your device does not work properly, and the repair requirements was confirmed by the manufacturer or dealer. The user should provide a text failure description and packing list , and the packaging should be well cushioned and protected.*

Please scan the QR code to download the driver software

MGL®
Incorporated with MGL

APAC
MGL APPA Corporation
cs.apac@mgl-intl.com

EMEA
MGL EUMAN S.L.
cs.emea@mgl-intl.com

MEXICO & LATAM
MGL LATAM S.A DE CV
cs.latam@mgl-intl.com

UNITED KINGDOM
POWER PROBE GROUP LIMITED
cs.uk@mgl-intl.com

中国
广东迈世测量有限公司
客服信箱: cs.cn@mgl-intl.com

亞太
邁世國際瑞星股份有限公司
客服信箱: cs.apac@mgl-intl.com

USA
MGL AMERICA, INC.
cs.na@mgl-intl.com