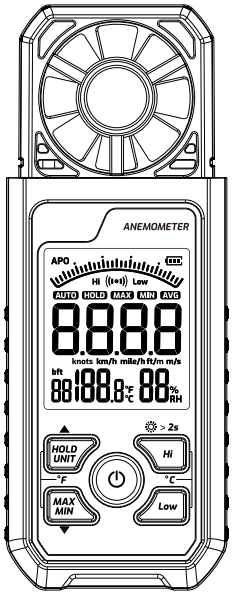
ANEMOMETER
User Manual

CE



Introduction

The TA641B is a handheld instrument designed for the measurement of air velocity and air temperature. It provides key measurement functions including data hold, as well as MAX/MIN/AVG value display.
The instrument is suitable for a wide range of applications, including electrical power systems, steel manufacturing, petrochemical industries, aviation, fan production, HVAC ventilation systems, and underground storage environments.

Safety Information

To prevent eye damage or personal injury, please read all safety information carefully before using the product.

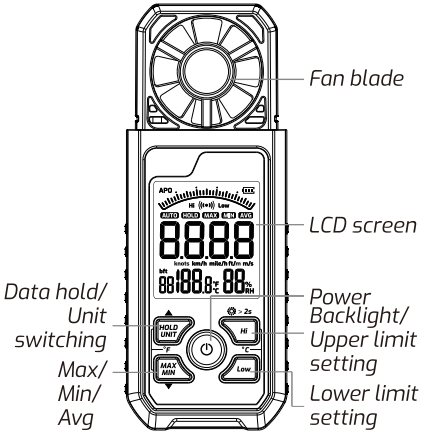
⚠ Warning

- *Inspect the product before use. Do not use if the product is damaged;*
- *Do not operate the product in environments with explosive gases, flammable vapors, or combustible dust;*
- *Replace the batteries when the "▭" symbol appears to prevent inaccurate measurements;*

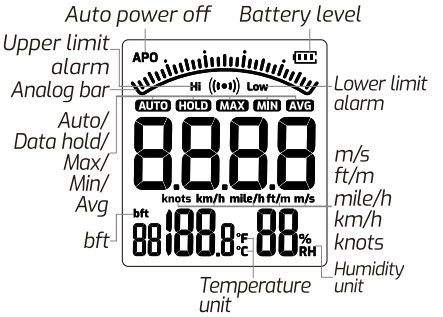
- *To avoid battery leakage, remove the battery if the product will not be used for an extended period or if stored in temperatures exceeding 50°C;*
- *Only qualified and authorized personnel are permitted to service or repair this product.*

Product

Overview



Display



Technical Specifications

	Model	TA641B
Air Velocity	Range	0.06 ~ 30.0m/s
	Accuracy	±(2%+0.2)
	Resolution	0.01/0.1/ 1
Air Temp.	Range	0 ~ 45°C
	Accuracy	±2°C
Ambient hum.	Range	0 ~ 99%RH
	Accuracy	±8%RH
Display		Monochromatic display, 4 digits(max. 9999)
Sensor		Infrared laser tube cutting method
Sampling Rate		2 samples/s
Data Hold		✓
Max/Min/Avg		✓
Backlit Display		✓
Low Battery Indication		✓ (below 3.8V)
Auto Power Off		15min (can be disabled)
Working Environment		-10 ~ 50°C, ≤80%RH, altitude<2000m
Storage Environment		-10 ~ 50°C, ≤70%RH (battery removed)
Screen Size		37 x 41mm
Power		3 x 1.5 AAA (R03/LR03)
Product Size		152 x 55 x 33mm
Product Weight		Approx. 135g (excluding batteries)

Air Velocity

Unit	Range	Resolution	Min value	Accuracy
m/s	0.06 ~ 30.0	0.01/0.1/1	0.1	±(2%+0.2)
km/h	1.0 ~ 108.0		1.0	±(2%+0.7)
ft/m	10 ~ 5905		10	±(2%+20)
mile/h	0.1 ~ 67.0		0.1	±(2%+0.2)
knots	0.1 ~ 58.32			
Bft	0 ~ 12			

Conversion

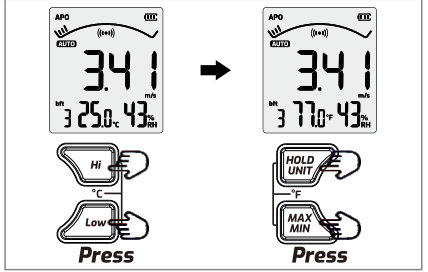
1m/s=3.6km/h=196.85ft/min=3.280ft/s=2.237mile/h=1.944knots

Air Temperature

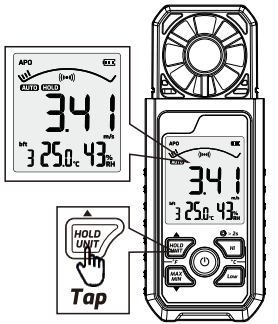
Unit	Range	Resolution	Accuracy
°C/°F	0 ~ 45°C (32.0 ~ 113.0°F)	0.1/1	±2°C (±3.6°F)

Operation

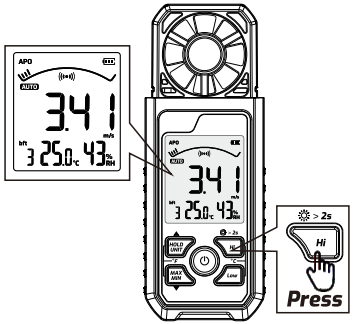
°C & °F 1



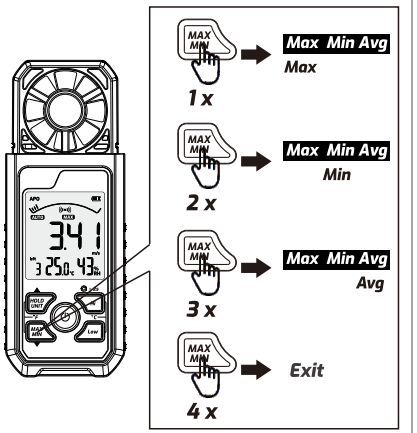
Data Hold 2



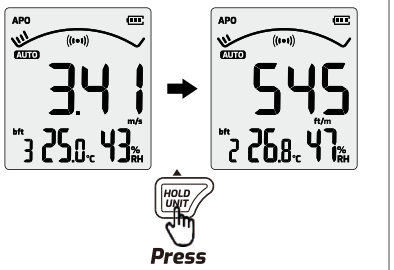
Backlight 3



Max / Min / Avg 4

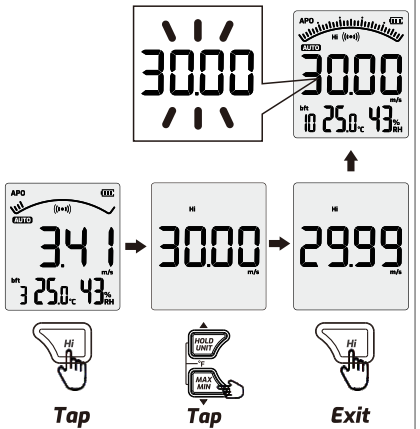


Unit Switch 5



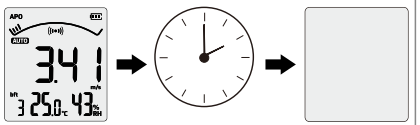
Air velocity unit (m/s, ft/m, mile/h, km/h, knots)

High Alarm Value 6

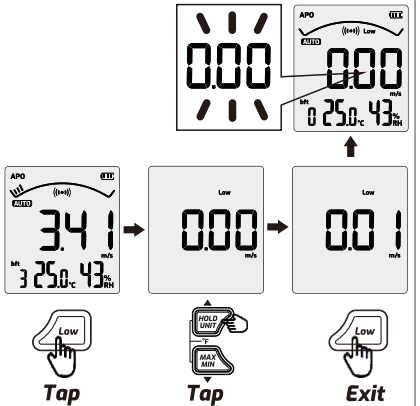


Note: When the measured value surpasses the high alarm threshold, the display text will turn red and the corresponding value will flash.

Auto-Off 7

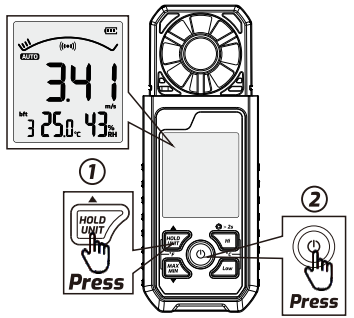


Low Alarm Value 8

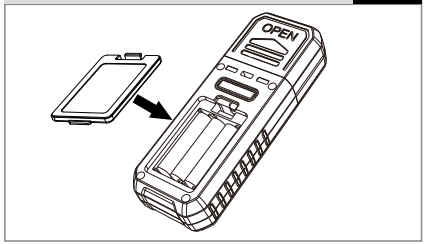


Note: When the measured falls below the low alarm threshold, the display text will turn red and the corresponding value will flash.

Disable Auto-Off 9



Battery Replacement 10



Warranty:

This product is warranted to be free from defects in materials and workmanship under normal use for a period of one year from the date of purchase. This warranty does not cover damages caused by improper use, unauthorized repairs, or physical damage.

To obtain warranty service, please contact the dealer or manufacturer to receive return authorization. Once authorized, return the product to the designated service center for evaluation and repair.

Thank you for choosing our product. We are committed to your satisfaction.