7. Operating Procedures

7.1 Temperature/Humidity reading selection

After powering the meter on, press the "" key to select Temperature or Humidity reading.

7.2 Backlight ON/OFF:

After powering the meter on, press the "" key once and the backlight will turn on. Press this key again to turn it off. The backlight will automatically turn off after approximately 30 seconds of inactivity

7.3 Data Hold

Press the "" button once, "HOLD" icon will appear on the LCD which indicates the data is frozen. To exit from data hold mode, press the button again.

7.4 Units selection

7.4.1 Measuring Air Velocity

(1) After entering Air Velocity mode, press the "" button to select the desired units. The device will cycle through m/s, km/h, ft/min, knots and MPH in turn.

7.4.2 Measuring Light

(2) After entering Light mode, press the "" button to select Lux or Fc.

7.5 Power ON/OFF

Turn the meter on by pressing the "" button for 1 second, and to turn the meter off, press and hold the "" button for at least 3 seconds

7.6 MODE button

After turning the meter on, press the "" button to select desired the function. The device will cycle though Sound Level, Air Velocity and Light in turn.

7.7 MAX/MIN record

Whilst in measuring mode, press the "" key to enter MAX/MIN measurement. 'MAX' will appear on the LCD and the maximum recorded value will be displayed. Press the key again; 'MIN' will appear on the LCD and the minimum recorded value will be displayed. Press the key again to exit MAX/MIN measurement mode.

7.8 Temperature units selection

When in measuring mode, press the "" button to select between ℃ or ℉.

8. Calibration

The recommended recalibration period is 1 year.

Calibration, repairs or servicing should only be performed by York Survey Supply Centre.

NOTE: All products are calibrated before delivery.

9. Notes

(1) Do not store or operate the meter in high temperature or humidity.
(2) Remove the battery when the meter is to be stored for long periods of time to avoid battery leakage.
(3) Wind blowing across the microphone will affect the noise measurement. Use the supplied wind muffler to cover the microphone during applications involving turbulent air.
(4) Keep microphone dry and avoid severe vibration.

10. Accessories

① User manual
② Temperature and Humidity probe
③ Anemometer vane
④ Lux probe
⑤ Wind muffler
⑥ 9V battery
⑦ Adaptor (Optional)
⑧ Tripod (Optional)

YORK Survey Supply

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YORK Survey Supply

5-in-1 Multi-Function Environment Meter

Code: 343490

Operating Instructions

1. ⚠Safety

Read the following safety information carefully before attempting to operate or service the meter.

Use the meter only as specified in this manual; otherwise, the warranty may be invalidated.

◆ **Environment conditions:**

Altitude less than 2000 meters

RH≤90%（Non-Condensation）

Operating Temperature: -30℃ ~ 60℃

◆ **Maintenance**

Repairs or servicing should only be performed by ATP Instrumentation Ltd.

Wipe the unit with a dry soft cloth. Do not use abrasives or solvents on this instrument.

◆ **Safety Symbol**

CE Complies with EMC

2. Introduction

The 5-In-1 Multi-Function Environment Meter is designed to combine the functions of a Sound Level Meter, Light Meter, Anemometer, Humidity Meter and Temperature Meter into one unit. It is ideal for various practical applications in professional and home use, such as monitoring and collecting data of outdoor environments (temperature, humidity, sunlight, wind speed etc.), or testing noise and light levels for health and safety adherence in factories, schools, offices, airports etc.

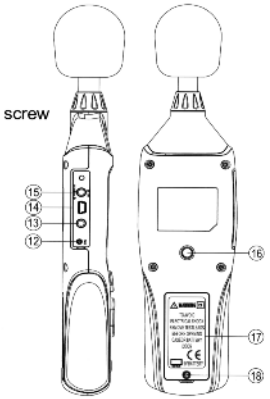
3. Specifications

Sound	
Applied standard	IEC61672-1 CLASS2
Accuracy	±2.0dB
Display	4 digit 55mm LCD screen
Resolution	0.1dB
Frequency response	31.5Hz to 8,000Hz
Measurement range	Auto：35dB to 130dB
Frequency weighting	dBA
Microphone	1/2 inch Electric condenser microphone
Light	
Measuring range	0 Lux to 200,000 Lux, 0 Fc to 20,000 Fc
Spectral response	CIE photopic（CIE human eye response curve）
Spectral accuracy	CIE Vλ function f1'≦6%
Cosine response	f2'≦2%
Accuracy	±4% rdg, ±0.5%f.s. (<10,000Lux) ±5% rdg, ±10 digits (>10,000Lux)
Photo detector	One silicon photo diode with filter
Airflow	
Air velocity range	0.5m/s to 30.0m/s
Air velocity accuracy	±3%, ±0.3d
Measurement units	m/s, km/h, ft/min, knots, MPH,
Temperature	
Measurement range	-40° to 70℃（-40° to 158°F）
Accuracy	±2.0℃, ±3.6°F
Measurement units	℃/°F
Resolution	0.1
Humidity	
Measurement range	10 to 95%RH
Accuracy	±5%RH
Resolution	0.1
Data update	1 time per second
Maximum value	MAX
Minimum value	MIN
Data Hold	HOLD
Auto power off	Automatic power off after approx. 15 minutes of inactivity
Power supply	1x 9V battery with type of 006P, NEDA1604 or IEC6F22
Battery life	Roughly 30 hours
Operating conditions	-20℃~60℃, 10%RH~90%RH
Storage conditions	-40℃~60℃, 10%RH~75%RH
Dimensions (L x W x H)	252 x 66 x 33mm
Weight	568g

4. Meter Description

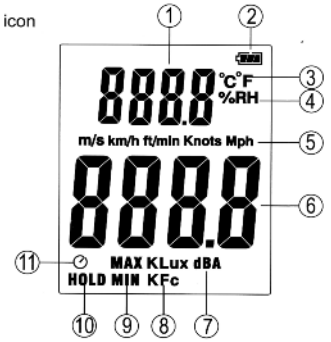
1) Wind muffler microphone cover
2) Microphone
3) LCD display
4) Temp./Humidity selection key
5) Backlight ON/OFF key
6) HOLD key
7) Units selection key
8) Power ON/OFF key
9) Function selection key
10) MAX/MIN
11) °C/°F Selection Key

12) Potentiometer calibration for sound level
13) Anemometer vane and Lux probe input
14) Temperature and Humidity sensor input
15) External DC 9V power supply terminal (positive inside and negative outside; Pore size：OD 3.5mm, ID 1.35mm)
16) Tripod bush
17) Battery Compartment
18) Battery Compartment screw



5. LCD Display Description

1) Temperature/Humidity reading display
2) Battery indication
3) Temperature unit icon
4) Humidity unit icon
5) Air velocity unit icon
6) Sound level, Air velocity or Light reading display
7) Sound level unit icon
8) Light unit icon
9) MAX/MIN
10) Data Hold
11) Power off timer



6. Operating Instructions

(1) Open battery cover and install a 9-volt battery in the battery compartment.
(2) Replace the battery cover and tighten the screw.
(3) Power the meter on.
(4) Press "MODE" key to select the desired function.

Notes:

- When the low battery icon "▭" appears, replace the meter's battery.
- Hold the meter in hand or use the tripod to affix the meter in the desired location. The best measuring distance is 1~1.5m away from the microphone to the sound source.
- When the AC adapter is used, insert the plug of the adapter（3.5φ）into the DC 9V connector on the side panel
- Please connect the Humitiy and Temperature probe before powering the meter on while conducting the humidity and temperature measuring.