

How to Conduct Indoor Temperature Measurement?





General Guidelines on Routine Air Temperature Measurements





Number of Sampling Points

- Measurements should be taken at air-conditioned space (Each floor for multi-storey air-conditioned premises)
- 1 sampling point per 2,000 m²
- 2 sampling points for area >4,000 m²
- 3 sampling points for area >6,000 m²





Example 1



Example 2



Number of Sampling Points

Average indoor temperature is the numerical average all sampling points





General Consideration for Selecting Locations for Measurement





Measurements shall be taken ...

- Occupied zones during the occupied hours
- The sampling locations should be representative locations





Measurements shall be taken ...

- In air-conditioned areas with both high and low occupancy rate
- At least 0.5 metre inward from corners, windows, walls, doors
- Not under direct sunlight
- At a height of 1.1 metres above the floor level for physical measurement



Measurements shall be taken ...

- Not directly in front of:
 - Air supply diffusers
 - > Floor fans
 - Heaters
 - Exhaled breath of the operators, lifts, escalators, entrance or exit, etc.







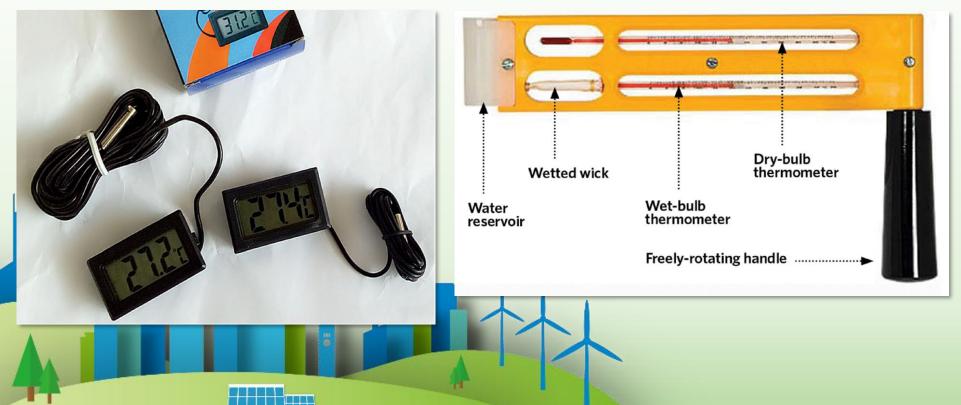
Measuring Instrument

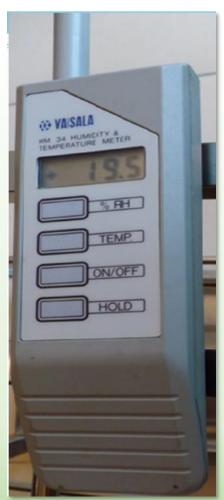




By Electronic or Mechanical Thermometer

(Adequate measuring time, normally last for one minute)





Measuring Instrument

 Should have a valid calibration certificate issued by an accredited laboratory of Hong Kong Laboratory Accreditation Scheme (HOKLAS).



Temperature Record

- Temperature readings captured by the BMS
- Seek assistance from building management offices for capturing air temperature reading





Temperature Record





Records of Temperature Measurement

- Measurement suggested to be taken at least twice a week
- Keep a record of the routine temperature measurements for future reference and review





Site Visit Records

Year	Site No.
2019	63
2020	64
2021	58
2022	70
2023	75

Venue selected for temperature checking is on randomly basis

Temperature measurement will only be taken at the area where signed up the Charter



Example of Temperature Measurement Record





Example (G/F)

Location	Measured Temperature (°C)
Lift Lobby	24.3
G03	24.5

Average Indoor Temperature for G/F (2 points) : **24.4°C**



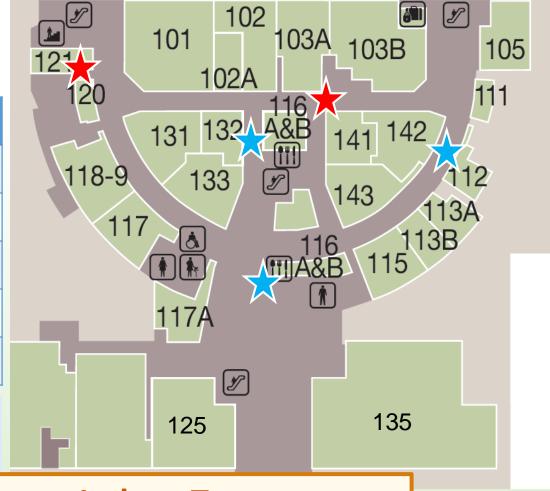


Example (1/F)

Location	Measured Temperature (°C)
103A	23.8
121	24.0
132	24.2
116A&B	24.6
112	23.9

Average Indoor Temperature for

1/F (5 points) : **24.1°C**



Average Indoor Temperature of the shopping mall (G/F & 1/F, 7 points): 24.2°C





ENERGY SAVING TIPS

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2024

Energy Saving Tips

- (1) Maintain average indoor air temperature between 24-26°C
 - For air temperature measurement, please refer to General Guidelines on Air Temperature Measurement.
 - Keep all the windows and doors close when air-conditioner is running.
 - Keep doors between air-conditioned and non-air-conditioned areas such as t building, lift lobbies, toilets and stores shut so as to minimize air infiltration wl keep door of fridge closed.
 - Dress light to minimize the use of AC.
 - Consider using an electric fan in conjunction with AC to spread cooled air mo
 - Set an indoor AC unit to low fan speed as the normal setting. Use a high fan temperature setting to cater for an increased cooling demand.

connecting the outside of the the air-conditioner is operating

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https://www.energysaving.gov.hk/esc2024/en/tips/index.html



Thank You

