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Preface

GB/T 18204 Examination methods for public places---Part 1: Physical parameters is divided into six parts:

- Part 1: physical factors;
- Part 2: chemical contaminants;
- Part 3: air microorganism;
- Part 4: public supplies utensils microorganism;
- Part 5: ventilation system of central air-conditioning;
- Part 6: Technical specifications of health monitoring.

This section is Part 1 of GB/T18204.

This section is drafted according to the provisions provided in GB/T1.1-2009.

This section replaces *GB/T 18204.13-2000 Determination Method of Air Temperature in Public Places*, *GB/T 18204.14-2000 Determination Method of Air Humidity in Public Places*, *GB/T18204.15-2000 Determination Method of Wind Speed in Public Places*, *GB/T 18204.16-2000 Determination Method of Pressure in Public Places*, *GB/T 18204.17-2000 Determination Method of Radiant Heat in Public Places*, *GB/T 18204.18-2000 Determination Method of Indoor Fresh Air Volume in public places*, *GB/T 18204.19-2000 Determination Method of Indoor Air Change Rate in Public Places*, *GB/T 18204.20-2000 Determination Method of Public Places Lighting Coefficient*, *GB/T 18204.21-2000 Determination Method of Public Illumination*, *GB/T 18204.22-2000 Determination Method of Noise in Public Places* and *GB/T 18204.28-2000 Determination Method of Swimming Water Temperature*; partly replaces GB/T 17220-1998 Health Monitoring Promptness Specification in Public Places on the contents of the selection of monitoring points, the testing requirements and monitoring data collection in public places.

Compared with GB/T 18204.13 ~ GB/T 18204.22-2000, GB/T 18204.28-2000

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4.2.4.2 Measurement range

The dew point temperature is - 45~ 60 °C.

4.3 Resistance capacitance method

4.3.1 Principles

Resistance and capacitance value of moisture sensor change with the change of environmental humidity with a certain rule, which could be used to measure the humidity.

4.3.2 Instruments

Various hygrometer which adopt resistive or capacitive humidity sensitive elements: relative humidity maximum permissible error shall be no more than ± 5 under the temperature of 25 °C.

4.3.3 Measuring steps

4.3.3.1 Measuring points arrangements can refer to A. 2.

4.3.3.2 Operate the instruments according to the instructions and read relative humidity value directly after the display value of the instrument is stable.

4.3.3.3 The moisture part of the moisture sensor of the instrument cannot be touched and dust pollution and harmful gas corrosion or condensation shall be avoided.

4.3.3.4 Intermediate checks and calibration before use on instruments should be conducted according to requirements.

4.3.4 Results calculation

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The result expression can refer to 4.1.4.2.

4.3.5 Measurement range

Under the temperature of 0 ~ 60 °C, the relative humidity measuring range of a resistive hygrometer is 10 ~ 90%, while the relative humidity measuring range of capacitive moisture meter is 0 ~ 100%.

5 Indoor wind speed (electrical anemometer method)

5.1 Principles

Thermoelectric power anemometer is composed of measuring head and measuring meter; the heating coil (fuse) of the measuring head exposes to a certain wind speed which causes the change of the current or voltage of heating probe. Since the rising level of the temperature of measuring head is negatively correlated with the wind speed, the wind speed could be indicated through the pointer or digits.

5.2 Instruments

Pointer or digital display electrical anemometer: the minimum value shall be no larger than 0.05 m/s.

5.3 Measuring steps

5.3.1 The layout of measuring points can refer to A.2.

5.3.2 Adjust the zero point and full scale according to the manual when using pointer thermoelectric anemometer; self-inspection or preheating shall be carried

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