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Ultraviolet photometer for monitoring of water pollution

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river pollution, lake pollution

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Ultraviolet photometer for monitoring of water pollution

1 Scope This Japanese Industrial Standard specifies automatic measuring instrument (hereafter referred to as "measuring instrument") for monitoring of water pollution through the evaluation of degree of organic pollution of exhaust water from factories and plants and of water of public water region such as rivers, lakes and marshes from absorbance of ultraviolet rays.

Remarks 1 This measurement, in connection with COD_{Mn} , can be used to calculate loaded quantity by water pollution relating to the regulation of total emission of water quality.

2 The normative references to this Standard are shown in Attached Table 1.

2 Matters in common The matters in common are in accordance with **JIS K 0050** and **JIS K 0115**.

3 Definitions For the purpose of this Standard, the main definitions are in accordance with **JIS K 0211**, **JIS K 0212**, and **JIS K 0215**, and in addition the following definitions apply.

- (1) **organic pollution** The water pollution due to substance absorbing the light of spectral line of 253.7 nm in wavelength of mercury.
- (2) **sample** Exhaust water from factories and plants and water in rivers, lakes, and marshes.
- (3) **10 mm cell conversion absorbance** When taking the apparent absorbance obtained by measuring instrument of L mm in cell length as A_s , the value expressed by $A_s \times (10/L)$.
- (4) **calibration liquid** The liquid for calibration which gives the same value as that indicated by the pollution in sample, and the following are used.
 - (a) **zero calibration liquid**
 - (b) **span calibration liquid**
- (5) **zero drift** Variation, in a specified duration, of indicated value to the minimum scale of measuring instrument.
- (6) **span drift** Variation, in a specified duration, of indicated value corresponding to scale span of measuring instrument.

4 Classification and measuring range The classification and measuring range of measuring instrument shall be as follows.

(1) Classification

- (a) **Immersion type (submerging type)** Construction to measure owing to the direct immersion of detecting part in sample.