

JIS

JAPANESE INDUSTRIAL STANDARD

Portable Type Methane Detector

JIS M 7653—1987

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In the event of any doubt arising,
the original Standard in Japanese is to be final authority.

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Portable Type Methane Detector

M 7653-1987

1. Scope

This Japanese Industrial Standard specifies the portable type methane detector to measure the concentration of methane in coal mine and the like, hereinafter, referred to as "detector". However, those detectors whose detection principle is interferometric method are excluded.

2. Classification

The detectors shall be classified into diffusion type detector and suction type detector according to sampling method of air to be detected.

3. Performance

3.1 Indication Accuracy The indication accuracy, when tested according to 5.2, shall meet Table 1.

Table 1. Permissible Deviations

Unit: volume %	
Range of concentration to be measured	Permissible deviation
0 to 2.0	Within ± 0.2
0 to 5.0	Within ± 0.4
0 to 10.0	Within ± 0.6
0 to 100	Within ± 6

3.2 Repeatability The repeatability, when tested according to 5.3, shall meet Table 1.

3.3 Stability The stability, when tested according to 5.4, shall meet Table 2.

Applicable Standard:

JIS C 0901-Electrical Apparatus for Use in Gassy Coal Mines

Reference Standards:

JIS Z 8103-Glossary of Terms Used in Instrumentation

JIS Z 9001-General Rules for Sampling Inspection Procedures