

## 3.1 Load Cell Terms, Specifications, Performance & Testing Methods

### 1. Outline

Each country has its own standards governing the performance and quality of load cells. In Japan, there is no standard specifically stipulated for load cells, however the Japan Industrial Standards (JIS) (Load cell – Test method JIS B7602) and the Japan Measuring Instruments Federation (JMIF) have prescribed methods for performance tests.

At the same time, the International Organization of Legal Metrology (OIML) has established international recommendations titled “Metrological Regulations for Load Cells,” and each member country of OIML is striving to ensure that their local regulations are consistent with these regulations. These recommendations largely concern load cells used for scales.

Summarized succinctly, OIML’s recommendations treat non-linearity and hysteresis error together, and have adopted a method by which accuracy is evaluated based on whether those errors are within the limits determined for the prescribed temperature range.