

# JIS

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JIS C 1102-3 : 1997

**Direct acting indicating analogue  
electrical measuring instruments  
and their accessories  
Part 3 : Special requirements for  
wattmeters and varimeters**

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## Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of International Trade and Industry through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law. By this establishment **JIS C 1102 : 1981** is withdrawn and replaced by this Standard.

## Constitution of Standard

**JIS C 1102** has common title “*Direct acting indicating analogue electrical measuring instruments and their accessories*” and consists of the following nine parts:

*JIS C 1102-1 Part 1 : Definitions and general requirements common to all parts*

*JIS C 1102-2 Part 2 : Special requirements for ammeters and voltmeters*

*JIS C 1102-3 Part 3 : Special requirements for wattmeters and varimeters*

*JIS C 1102-4 Part 4 : Special requirements for frequency meters*

*JIS C 1102-5 Part 5 : Special requirements for phase meters, power factor meters and synchrosopes*

*JIS C 1102-6 Part 6 : Special requirements for ohmmeters (impedance meters) and conductance meters*

*JIS C 1102-7 Part 7 : Special requirements for multi-function instruments*

*JIS C 1102-8 Part 8 : Special requirements for accessories*

*JIS C 1102-9 Part 9 : Recommended test methods*

Standards of **JIS C 1102-2** to **JIS C 1102-9** shall be read in conjunction with **JIS C 1102-1**.

Standards of **JIS C 1102-1** to **JIS C 1102-8** are arranged in the same format and a standard relationship between subject and clause number is maintained throughout. In addition, the part number of each Standard is suffixed to the indication of tables, figures and annexes for easy identification. This re-arrangement will assist the user to distinguish information relating to the different types of instruments.

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**Direct acting indicating analogue  
electrical measuring instruments  
and their accessories  
Part 3 : Special requirements for  
wattmeters and varimeters**

**Introduction** This Japanese Industrial Standard has been prepared based on IEC 51-3 *Direct acting indicating analogue electrical measuring instruments and their accessories Part 3 : Special requirements for wattmeters and varimeters*, published in 1984 as the fourth edition and Amendment 1 (1994) without modification of technical contents.

## **1 Scope**

**1.1** This Japanese Industrial Standard applies to direct acting indicating wattmeters and varimeters having an analogue display.

Note : For multifunction instruments, see JIS C 1102-7.

**1.2** This Standard also applies to non-interchangeable accessories (as defined in Sub-clause 2.1.15.3 of JIS C 1102-1) used with wattmeters and varimeters.

**1.3 to 1.8** See JIS C 1102-1.

## **2 Definitions**

See JIS C 1102-1.

## **3 Description, classification and compliance**

### **3.1 Description**

Wattmeters and varimeters shall be described according to their method of operation as given in Sub-clause 2.2 of JIS C 1102-1.

### **3.2 Classification**

Wattmeters and varimeters shall be classified in one of the accuracy classes denoted by the following class indices:

0.05, 0.1, 0.2, 0.3, 0.5, 1, 1.5, 2, 2.5, 3, 5

### **3.3 Compliance with the requirements of this standard**

See JIS C 1102-1.

## **4 Reference conditions and intrinsic errors**

### **4.1 Reference conditions**