JIS

JAPANESE
INDUSTRIAL
STANDARD

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JIS C 1102-5 : 1997

(IEC 51-5 : 1985)

Direct acting indicating analogue electrical measuring instruments and their accessories
Part 5 : Special requirements for phase meters, power factor meters and synchroscopes

ICS 17.220.20

Descriptors : electrical measuring instruments, phase measurement (electric), power factor, phase (electric)

Reference number : **JIS C 1102-5 : 1997 (E)**

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 Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law. By this establishment **JIS C 1102** : 1981 was withdrawn and replaced with this Standard.

Constitution of Standard

JIS C 1102 consists of the following 9 parts under the common title *Direct acting indicating analogue electrical measuring instruments and their accessories.*

Part 1 : *Definitions and general requirements common to all parts*
Part 2 : *Special requirements for ammeters and voltmeters*
Part 3 : *Special requirements for wattmeters and varmeters*
Part 4 : *Special requirements for frequency meters*
Part 5 : *Special requirements for phase meters, power factor meters and synchroscopes*
Part 6 : *Special requirements for ohmmeters (impedance meters) and conductance meters*
Part 7 : *Special requirements for multi-function instruments*
Part 8 : *Special requirements for accessories*
Part 9 : *Recommended test methods*

Parts 2 to 9 are not complete in themselves and shall be read in conjunction with Part 1.

Parts 1 to 8 are arranged in the same format and a standard relationship between subject and clause number is maintained throughout. In addition, tables, figures and annexes add a suffix to the part number in order to differentiate the parts. This re-arrangement will assist the reader of this Standard to distinguish information relating to the different types of instruments.

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In the event of any doubts arising as to the contents, the original JIS is to be the final authority.

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JIS C 1102-5 : 1997
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Direct acting indicating analogue electrical measuring instruments and their accessories Part 5 : Special requirements for phase meters, power factor meters and synchroscopes

Introduction This Japanese Industrial Standard has been prepared based on **IEC 51-5** *Direct acting indicating analogue electrical measuring instruments and their accessories Part 5 : Special requirements for phase meters, power factor meters and synchroscopes* issued in 1985 as the fourth edition without changing the technical contents.

1 Scope

1.1 Part 5 applies to direct acting indicating analogue phase meters, power factor meters and synchroscopes.

1.2 This part also applies to non-interchangeable accessories (as defined in Sub-clause **2.1.15.3** of **JIS C 1102-1**) used with phase meters, power factor meters and synchroscopes.

1.3 This part also applies to a phase meter or power factor meter whose scale marks do not correspond directly to its electrical input quantity, provided that the relationship between them is known.

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

2 Definitions

See **JIS C 1102-1**.

3 Description, classification and compliance

3.1 Description

Phase meters, power factor meters and synchroscopes shall be described according to their method of operation as given in Sub-clause **2.2** of **JIS C 1102-1**.

3.2 Classification

Phase meters, power factor meters and synchroscopes shall be classified in one of the accuracy classes denoted by the following class indices:

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**.