UDC 621.316.5.06 : 621.315.2/.6 : 621.317.7 : 681.3.02

JIS

JAPANESE INDUSTRIAL STANDARD

An Interface System for Programmable Measuring Instruments

JIS C 1901–1987

Translated and Published

by

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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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JAPANESE INDUSTRIAL STANDARD J I S

An Interface System for Programmable Measuring Instruments

C 1901-1987

Section 1. General

1. Scope and Object

1.1 Scope

1.1.1 This Standard is applicable to interface systems used to interconnect both programmable and non-programmable electronic measuring apparatus with other apparatus and accessories necessary to assemble instrumentation systems.

1.1.2 This Standard is applicable to the interface of instrumentation systems, or portions of them, in which:

(1) the data exchanged among the interconnected apparatus is digital (as distinct from analogue);

(2) the total transmission path length over the interconnecting cables does not exceed 20 m;

(3) the data rate across the interface on any signal line does not exceed 1 megabit per second.

The basic functional specifications of this standard may be used in digital interface applications which require:

(1) longer distances,

(2) more devices,

(3) increased noise immunity,

(4) or combinations of these.

Different electrical and mechanical specifications may be required (e.g., symmetrical circuit configurations, high threshold logic, special connectors or cable configurations) for these extended applications.

1.1.3 This Standard may also be applicable to other instrumentation system elements such as processors, stimulus, display, or storage devices, and terminal units found useful in instrumentation systems.

1.1.4 This Standard applies generally to laboratory and production test environments which are both electrically quiet and restricted as to physical dimensions (distances between the system components).

Applicable Standards, Corresponding International Standard and Reference Standards: See page 99.