

ICS 25.040.40

CCS N 10



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 22162-2008

**Dimensions of panel areas and cut-outs for panel and
rack-mounted industrial-process measurement and control
instruments**

盘装和架装工业过程测量和控制仪表的盘面和开孔尺寸

(English Translation)

Issued on: June 30, 2008

Implemented on: January 1, 2009

Issued by: Standardization Administration of China

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Foreword

This standard is identical with IEC 60668. 1980 "panel and rack mounted industrial process measurement and control instruments and the opening size of the disk" (English Chinese Version).

In developing this standard according to GB/T 1.1-2000 "Standardization Guide Part 1. Standard structure and writing rules" and GB/T 20000.2-2001. the relevant provisions of "Standardization Guide Part 2 rules of international standards," made the following editorial modify.

- a) Remove the foreword and introduction of international standards;
- b) "The report" be replaced by "this standard";
- c) the original international standard 3.7 exemplified IEC 60473 has been replaced by IEC 61554, this standard to include IEC 61554;
- d) the international standard in Tables 1 and 2 have indicated, the standard will move in the following table, as a table note;
- e) Table 1, penultimate line 3, the original International Standard column 1 missing in multiples of the value "26" and the size of the value of column 2, "325", to this standard to supplement.

For ease of comparison, the former international standards This standard does not change the format.

The standard proposed by China Machinery Industry Federation.

The standard measurement and control Standardization Technical Committee first points by the National Technical Committee of industrial processes.

1 Scope

This standard specifies the industrial process installed in the dashboard or instrument shelf measurement and control instruments and the opening size of the disk series.

Objective 2

This standard gives the panel and the hole size measurement and control instruments in order to facilitate.

--- Installation of industrial process measurement and control instrumentation dashboard or instrument rack layout design;

--- Industrial process measurement and control instruments designed to meet the size of this series.

3 General

3.1

panels and aperture size should make the design of the device can be based on ergonomic principles, especially the principle of anthropometry for the various sectors of industry Process measurement and control devices to provide the most appropriate operator/device interface.

3.2

panel and the hole size should take into account the development of technology, the development of technology will change the form of industrial process instrumentation and information display the way.

3.3

panel and the hole size should allow effective use of the instrument panel, rack space.

3.4

panel and the hole size should meet the dashboard, different mechanical structures and installation of technical requirements for aircraft.

3.5

panel and the hole size should take into account existing standards 482.6mm (19in) instrument racks sizing system [see GB/T 19520 electronic Preparation of the mechanical structure of 482.6mm (19in) series of mechanical structure size].

3.6

panel and opening size series does not consider the automatic routing machines commonly used 2.54mm (0.1in) architecture, as modern machines can pass Through programming process millimeters.

3.7

The recommended hole size and the panel should be not covered by this standard, as well as industrial control systems often follow a process measurement and control instruments from the use of other instruments compatible with the size (for example, IEC 61554

panel-mounted electrical measuring device dashboard package size).

3.8

The recommended size of a single family should be allowed to install and multiple installation (in a public opening, the housing or mosaic structure into a set of installation).

3.9

In view of the outside of the scope of application of this standard equipment in the world are not standardized (for example, whether it is gas or electric plug and socket connection, and a plug pin functions and functional location are not uniform standard), this series does not make the size of the actual size of the standardization of the instrument to enable the extent of the instrument interchangeable.

4 Terms and Definitions

The following terms and definitions apply to this standard.

On the dashboard consists of one or a group of instruments to determine the width and height of the area of the scale.

One or more pieces from the plate material and (or) structure consisting of various types of instruments suitable for installation units. It may be a console or instrument cabinet a part of.

GB/T 22162-2008/IEC 60668. 1980