

Panel Cut-Out Dimensions

Published March 1962

Disclaimer

MCAA, the Measurement, Control & Automation Association, provides this document as an information guide only. It should not be relied upon or used as a substitute for research or independent, professional advice. Since its original publication many years ago, it has been declared obsolete by the organization that created it. That organization will no longer permit its name to be associated with the document. MCAA has acquired the rights to several documents and offers them to the public as information guides only.

Terminology, techniques or technology mentioned in this document may no longer be applicable or up-to-date and the reader is cautioned to draw only limited inferences therefrom and to bear in mind the length of time that has elapsed since this document was first developed. The reader is further cautioned to use or seek professional advice before using or implementing any of the information contained herein.

MCAA makes no representations, warranties or guarantees to the reader with respect to the content, accuracy or completeness of this material and strongly cautions the reader to use this document as an information guide only. MCAA disclaims any warranty, express or implied, including but not limited to, an implied warranty of accuracy or fitness of the document in whole or in part, whether in text, graphs, diagrams or otherwise.

MCAA is not responsible for any loss or damage caused to any person as a result of the use of any information contained in this document. The user assumes all risk and liability for any loss or damage caused to any person as a result of the use of the information contained herein.

The Measurement, Control & Automation Association is a national trade association whose members are manufacturers and distributors of instrumentation, systems and software used in industrial process control and factory automation worldwide. The Association helps the management teams of process and factory automation product and solution providers run and grow successful businesses by offering timely, unique and highly specialized resources acquired from shared management benchmarks and strategies where proprietary company information is secure. MCAA can be contacted through its website at www.measure.org



The Measurement, Control & Automation Association
P.O. Box 3698, Williamsburg, VA 23187
Voice and Fax: (757) 258-3100 – mcaa@measure.org
Visit our Website at <http://www.measure.org>

FOREWORD

Standards are adopted in the public interest and are designed to eliminate misunderstandings between the manufacturer and the purchaser and to assist the purchaser in selecting and obtaining without delay the proper product for his particular need. Existence of a Standard does not in any respect preclude any member or non-member from manufacturing or selling products not conforming with the standard.

CONTENTS

	Section No.
Scope and Purpose	1
Definitions	2
Panel Cut-Out Dimensions	3

PANEL CUT-OUT DIMENSIONS

1. Scope and Purpose

1.1 This standard applies to panel cut-out dimensions for panel mounted rectangular instrument cases and auxiliary equipment requiring a panel cut-out 6" x 6" or smaller.

1.2 The purpose of this standard is to establish standard panel cut-out dimensions which will assist in minimizing the specialized engineering involved in the purchase and installation of this equipment.

2. Definitions

2.1 The following definitions give the meaning of the terms as used in this standard.

2.2 Panel Mounted Instruments and Panel Mounted Auxiliary Equipment. Panel mounted instruments and panel mounted auxiliary equipment are devices with the type of mountings which involve cut-outs in panels, the bulk of the devices extending through such cut-outs on the rear of the panels. This type of mounting is, at times, referred to as "flush mounting".

2.3 Panel Cut-Out. A panel cut-out is the opening required in a support panel to permit panel mounting.

3. Panel Cut-Out Dimensions

3.1 Panel cut-out dimensions for rectangular case recording instruments shall be 6" x 6" or 5" x 5".

3.2 Panel cut-out dimensions for recorders requiring cut-outs smaller than 5" x 5" and cut-out dimensions for other panel mounted equipment should be selected from the ASA standard Z17.1, "Preferred Number Series 20", modified as shown below. Any combination of these numbers may be used in either horizontal or vertical direction. The modified number series is:

1. 1 1/8, 1 1/4, 1 3/8, 1 1/2, 1 3/4,
2. 2 1/4, 2 1/2, 2 3/4, 3, 3 1/2, 4,
- 4 1/2, 5, 6.

3.3 A one-eighth inch positive and zero negative tolerance shall be allowed on the basic dimensions selected in accordance with paragraphs 3.1 and 3.2. The tolerance limits on the cut-out dimensions are defined by the tolerance bands illustrated in figures 1 & 2 for the 5" x 5" and 6" x 6" basic dimensions. The intent of the tolerance specification is that a sharp corner plug gauge of the basic dimensions will pass through the opening.

3.4 The front surface of the panel and the cut-out shall be free of any burrs higher than 1/64".

3.5 In order to conform with the purpose of this standard, instruments designed to be mounted on panels in standard cut-outs shall be provided with mounting means such that no additional holes or notches or other modifications of the panel shall be required.

