UL 1437

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Electrical Analog Instruments – Panel Board Types

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Summary of Topics

This new edition of UL 1437 is being issued through UL's electronic publishing system to ensure format uniformity between the PDF and HTML versions of the document. While numbering and figure placement, where appropriate, may have been updated, no substantive changes have been incorporated in the document.

As indicated on the title page (page1), this UL Standard for Safety has been adopted by the Department of Defense.

The UL Foreword is no longer located within the UL Standard. For information concerning the use and application of the requirements contained in this Standard, the current version of the UL Foreword is located on ULStandardsInfoNet at: http://ulstandardsinfonet.ul.com/ulforeword.html

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The requirements in this Standard are now in effect, except for those paragraphs, sections, tables, figures, and/or other elements of the Standard having future effective dates as indicated in the note following the affected item. The prior text for requirements that have been revised and that have a future effective date are located after the Standard, and are preceded by a ″SUPERSEDED REQUIREMENTS″ notice.

New product submittals made prior to a specified future effective date will be judged under all of the requirements in this Standard including those requirements with a specified future effective date, unless the applicant specifically requests that the product be judged under the current requirements. However, if the applicant elects this option, it should be noted that compliance with all the requirements in this Standard will be required as a condition of continued Recognition and Follow-Up Services after the effective date, and understanding of this should be signified in writing.

This Standard consists of pages dated as shown in the following checklist:

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UL 1437

Standard for Electrical Analog Instruments – Panel Board Types

First Edition – November, 1979
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Third Edition – April, 1998

Fourth Edition

December 12, 2006

An effective date included as a note immediately following certain requirements is one established by Underwriters Laboratories Inc.

The Department of Defense (DoD) has adopted UL 1437 on October 3, 1994. The publication of revised pages or a new edition of this Standard will not invalidate the DoD adoption.

Revisions of this Standard will be made by issuing revised or additional pages bearing their date of issue. A UL Standard is current only if it incorporates the most recently adopted revisions, all of which are itemized on the transmittal notice that accompanies the latest set of revised requirements. Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at http://csds.ul.com.

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INTRODUCTION

1 Scope

1.1 These requirements cover electrical and electrically operated indicating and recording instruments of the analog type that are powered only from the measured parameter and are intended for ordinary use in panel boards and the like.

1.2 These requirements cover direct-acting or indirect-acting instruments and accessories that may contain electronic devices.

1.3 These requirements cover instruments indicating quantities of electrical analogs including all of the following:

a) Ammeters.

b) Voltmeters.

c) Wattmeters.

d) Varmeters (reactive volt-ampere meters).

e) Frequency meters.

f) Power-factor meters.

g) Synchroscopes.

1.4 These requirements cover instruments constructed for special purposes such as, ultrasensitive d-c microammeters, high-resistance voltmeters, thermo-milliammeters, thermal voltmeters of the vacuum-couple type, and instruments with special and unusual ranges.

1.5 These requirements cover analog instruments that may be categorized according to use or principle of operation as follows:

a) Use:

1) Panel Type, including edgewise.

2) Switchboard type, including edgewise.

b) Principle of operation:

1) Electrodynamics.

2) Permanent-magnet moving coil.

3) Moving iron.

4) Thermocouple.

5) Rectifier.