UL 916

STANDARD FOR SAFETY

Energy Management Equipment

UL Standard for Safety for Energy Management Equipment, UL 916

Fifth Edition, Dated October 22, 2015

Summary of Topics:

This revision of UL 916 dated October 21, 2021 includes changes in requirements in Supplement SA to address energy management equipment that use remote or cloud-based interface for communication and to clarify functional safety requirements referencing UL 60730-1; SA1, SA1.4, SA1.5, SA2.1, SA2.2, SA2.4, SA2.6 – SA2.9, SA3.1 – SA3.6, Section SA4 and SA5.6.

Text that has been changed in any manner or impacted by UL's electronic publishing system is marked with a vertical line in the margin.

The new and revised requirements are substantially in accordance with Proposal(s) on this subject dated August 27, 2021.

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UL 916

Standard for Energy Management Equipment

First Edition – August, 1984
Second Edition – April, 1994
Third Edition – December, 1998
Fourth Edition – December, 2007

Fifth Edition

October 22, 2015

This UL Standard for Safety consists of the Fifth Edition including revisions through October 21, 2021.

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 https://csds.ul.com.

No Text on This Page

CONTENTS

INTRODUCTION

CONSTRUCTION

PROTECTION AGAINST INJURY TO PERSONS

PERFORMANCE

MANUFACTURING AND PRODUCTION TESTS

INTRODUCTION

1 Scope

1.1 These requirements cover energy management equipment and associated sensing devices rated 600 volts or less and intended for installation in accordance with the National Electrical Code, NFPA 70.

1.2 This equipment energizes or de-energizes electrical loads to achieve a desired use of electrical power. The equipment is intended to control electrical loads by responding to sensors or transducers monitoring power consumption, by sequencing, by cycling the loads through the use of preprogrammed data logic circuits, or any combination thereof. Devices responding to signals from a utility company may receive the signals over the power lines or as radio signals.

1.3 These requirements also cover equipment intended for connection only to a low-voltage circuit of limited power supplied by a Class 2 transformer.

1.4 These requirements do not cover switching devices operated by a mechanical or electromechanical clock mechanism to energize or de-energize loads. These requirements do cover electronic clock operated energy management equipment.

1.5 Controls intended to be installed in air handling spaces or in other environmental air space (plenums) are covered under the scope of this standard.

2 Components

2.1 Except as indicated in 2.2, a component of a product covered by this standard shall comply with the requirements for that component. See Appendix A for a list of standards covering components used in the products covered by this standard.

2.2 A component is not required to comply with a specific requirement that:

a) Involves a feature or characteristic not required in the application of the component in the product covered by this standard, or

b) Is superseded by a requirement in this standard.

2.3 A component shall be used in accordance with its rating established for the intended conditions of use.

2.4 Specific components are incomplete in construction features or restricted in performance capabilities. Such components are intended for use only under limited conditions, such as certain temperatures not exceeding specified limits, and shall be used only under those specific conditions.

3 Units of Measurement

3.1 When a value for measurement is followed by a value in other units in parentheses, the first stated value is the requirement.

3.2 Unless otherwise indicated, all voltage and current values mentioned in this standard are root-mean-square (rms).