

DRAFT FOR DEVELOPMENT

Safety requirements for electrical equipment for measurement, control and laboratory use – Particular requirements for equipment rated for use by children and young people in educational establishments

ICS 19.080; 71.040.10

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Notification of the start of the review period, with a request for the submission of comments from users of this Draft for Development, will be made in an announcement in the appropriate issue of *Update Standards*.

According to the replies received, the responsible BSI Committee will judge whether the Draft for Development can be converted into a British Standard or what other action should be taken.

Observations which it is felt should receive attention before the official call for comments will be welcomed.

These should be sent to the Secretary of BSI Technical Committee EPL/66 at British Standards House, 389 Chiswick High Road, London W4 4AL.



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Foreword

Publishing information

This Draft for Development is published by BSI and came into effect on 31 July 2007. It was prepared by Technical Committee EPL/66, *Safety of measuring, control and laboratory equipment*. A list of organizations represented on this committee can be obtained on request to its secretary.

Relationship with other publications

This Draft for Development is to be read in conjunction with BS EN 61010-1:2001, *Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 1: General requirements*, which it supplements or modifies as detailed in the Introduction which follows.

Wherever Part 1 is referred to in this Draft for Development it is to be taken to mean BS EN 61010-1:2001.

Presentational conventions

The provisions of this Draft for Development are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is “shall”.

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

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This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a Draft for Development cannot confer immunity from legal obligations.

Introduction

Electrical equipment is used for teaching science in educational establishments to children and young persons between the ages of 3 and 18. Since the publication of BS EN 61010, manufacturers have used it as the basis for the safe design of such equipment and for assessing its suitability. However, it is known that in some countries additional requirements have to be complied with before children and young persons can use the equipment.

It is generally recognized that children in educational establishments are more likely than responsible adults to poke objects and materials through apertures into the interior of electrical equipment. Consequently, more stringent criteria for access to live conductors are required for educational establishment equipment than the standard applied for general laboratory use. Moreover, the temperatures of casings, controls and handles allowed by the current standard, BS EN 61010-1, are considered too high for equipment that will be handled by children and young persons. It has been the practice of responsible manufacturers to design their products so that the temperatures in practice do not present a hazard to children and young persons, but standardized requirements are needed. Ergonomic considerations are also relevant in that portable units should not be too heavy for the user to move, lift or carry.

This Draft for Development addresses the particular requirements for equipment within the scope of BS EN 61010 to be used by children between the ages of 3 and 18 in educational establishments, when supervised by a competent person.

It should be noted that this Draft for Development does not stand as a full document in its own right, but should be considered in conjunction with BS EN 61010-1 (referred to hereafter as “Part 1”).