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**BSI Standards Publication**

## **Graphical symbols for electrical equipment in medical practice**

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## National foreword

This Published Document is the UK implementation of IEC TR 60878:2022 incorporating corrigendum February 2023. It supersedes PD IEC/TR 60878:2015, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee CH/62/1, Common aspects of Electrical Equipment used in Medical Practice.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Published by BSI Standards Limited 2023

ISBN 978 0 539 26347 3

ICS 01.080.20; 01.080.40; 11.040.60

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This Published Document was published under the authority of the Standards Policy and Strategy Committee on 30 November 2022.

### Amendments/corrigenda issued since publication

Date	Text affected
31 March 2023	Implementation of IEC corrigendum February 2023: Symbols replaced in ISO 7000-0622, ISO 7000-0629, ISO 7000-2402, ISO 7000-2403, ISO 7000-2405 and ISO 7000-2406.

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Edition 4.0 2022-11

# TECHNICAL REPORT



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## Graphical symbols for electrical equipment in medical practice

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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ICS 01.080.40; 11.040.60

ISBN 978-2-8322-5866-8

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

# GRAPHICAL SYMBOLS FOR ELECTRICAL EQUIPMENT IN MEDICAL PRACTICE

## FOREWORD

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IEC TR 60878 has been prepared by subcommittee 62A: Common aspects of electrical equipment used in medical practice, of IEC technical committee 62: Electrical equipment in medical practice. It is a Technical Report.

This fourth edition cancels and replaces the third edition published in 2015. This fourth edition constitutes a technical revision.

The main changes compared with IEC TR 60878:2015 are as follows:

- A total of 109 new symbols and safety signs that have been identified since the publication of the third edition have been added. For identification, the number of the new symbol or safety sign is printed in red followed by "New".
- Of the symbols and safety signs in the third edition, 14 have changes in their title or description. For identification, the number of a modified symbol or safety sign is printed in red followed by "Mod".

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The text of this Technical Report is based on the following documents:

Draft	Report on voting
62A/1472/DTR	62A/1483/RVDTR

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this Technical Report is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under [webstore.iec.ch](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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## INTRODUCTION

This document is a collection of all graphical symbols used on medical electrical equipment. It is intended for the easy finding of a certain symbol and related ones in one single source, concentrating on this special field of application. For those more general symbols, for which the application on medical electrical equipment is subject to certain restrictions, these are pointed out in a section of the symbol description table headed "Further comments by IEC/TC 62".

This is not just "a collection of some symbols". The presented symbols should:

- comply with the drafting rules expressed in ISO/IEC 80416,
- use symbol elements in a consistent manner to facilitate user understanding and minimize errors, and
- sufficiently differ in appearance from each other, to avoid any confusion.



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## GRAPHICAL SYMBOLS FOR ELECTRICAL EQUIPMENT IN MEDICAL PRACTICE

### 1 Scope

This document provides a compilation, for easy reference, of graphical symbols (graphics, title, description) and safety signs for medical electrical equipment. The graphical symbols are grouped in sections according to their specific field of application (see Clause 4).

### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60417, *Graphical symbols for use on equipment*, available at <http://www.graphical-symbols.info/equipment>

IEC 60601-1, *Medical electrical equipment – Part 1: General requirements for basic safety and essential performance*

IEC 60601-1-8:2006, *Medical electrical equipment – Part 1-8: General requirements for basic safety and essential performance – Collateral Standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems*  
IEC 60601-1-8:2006/AMD1:2012  
IEC 60601-1-8:2006/AMD2:2020

IEC 60601-2-18:2009, *Medical electrical equipment – Part 2-18: Particular requirements for the basic safety and essential performance of endoscopic equipment*

IEC 60601-2-22:2019, *Medical electrical equipment – Part 2-22: Particular requirements for basic safety and essential performance of surgical, cosmetic, therapeutic and diagnostic laser equipment*

IEC 60601-2-83:2019, *Medical electrical equipment – Part 2-83: Particular requirements for the basic safety and essential performance of home light therapy equipment*

IEC 60825-1:2014, *Safety of laser products – Part 1: Equipment classification and requirements*

IEC 61140, *Protection against electric shock – Common aspects for installation and equipment*

IEC 62056-21, *Electricity metering – Data exchange for meter reading, tariff and load control – Part 21: Direct local data exchange*

IEC 62570:2014, *Standard practice for marking medical devices and other items for safety in the magnetic resonance environment*

ISO 361, *Basic ionizing radiation symbol*

ISO 3166-1, *Codes for the representation of names of countries and their subdivisions – Part 1: Country codes*