

STN	Záchranné systémy Preprava inkubátorov Časť 1: Požiadavky na rozhrania	STN EN 13976-1 84 7093
------------	---	--

Rescue systems - Transportation of incubators - Part 1: Interface requirements

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 11/18

Obsahuje: EN 13976-1:2018

Oznámením tejto normy sa od 31.12.2019 ruší
STN EN 13976-1 (84 7093) z novembra 2011

127490

EUROPEAN STANDARD

EN 13976-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2018

ICS 11.040.10; 11.160

Supersedes EN 13976-1:2011

English Version

Rescue systems - Transportation of incubators - Part 1: Interface requirements

Systèmes de sauvetage - Transport d'incubateurs -
Partie 1: Exigences d'interface

Rettungssysteme - Inkubatortransport - Teil 1:
Schnittstellenanforderungen

This European Standard was approved by CEN on 10 January 2018.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN 13976-1:2018 (E)

Contents		Page
European foreword		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Requirements	7
4.1	Fixation	7
4.2	Electricity	8
4.3	Gas supply	10
Annex A (informative) Rationale regarding power use		12
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 93/42/EEC [OJ L 169] aimed to be covered		13
Bibliography		14

European foreword

This document (EN 13976-1:2018) has been prepared by Technical Committee CEN/TC 239 “Rescue systems”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2018, and conflicting national standards shall be withdrawn at the latest by December 2019.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA which is an integral part of this document.

This document supersedes EN 13976-1:2011.

The following point represents the most important technical change in the revision:

- clarified ambiguous and unclear issues in order to improve interchangeability and interoperability of the transport incubator system when transported in hospitals and between hospitals using different ambulances and air crafts, by specifying the interface for mechanical fixation, gas connector and electrical connector

EN 13976 consists of the following parts, under the general title *Rescue systems — Transportation of incubators*:

- *Part 1: Interface requirements*
- *Part 2: System requirements*

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

EN 13976-1:2018 (E)**Introduction**

This European Standard gives the requirements for the interfaces required in the transport of a transport incubator system. The standard includes interfaces between the incubator and the ambulance as well as those between the various items of equipment used to form the transport incubator system. They are essential in order to ensure interchangeability and a safe and effective function in different vehicles, allowing the uninterrupted care of infants. Interface requirements are given in this part 1 (EN 13976-1). Requirements for the system are given in part 2 (EN 13976-2).

Fixation, monitoring, supply of gas and electricity are maintained through the use of the same standard interfaces as defined in this document.

1 Scope

This European Standard specifies the requirements for the interface between the ambulance and the incubator and the associated equipment, needed for care and treatment of infants, used in emergency or planned transports to ensure interchangeability and interoperability and to provide uninterrupted care of infants.

This European Standard does not give requirements for the vehicles, crafts, devices or incubators as such; these requirements are found in other standards. However, transport incubators are normally combined with other equipment to form a “transport incubator system”.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ENV 737-6:2003, *Medical gas pipeline systems — Part 6: Dimensions and allocation of probes for terminal units for compressed medical gases and vacuum*

EN 1789:2007+A2:2014, *Medical vehicles and their equipment — Road ambulances*

EN 13718-1:2014, *Medical vehicles and their equipment — Air ambulances — Part 1: Requirements for medical devices used in air ambulances*

EN 13718-2:2015, *Medical vehicles and their equipment — Air ambulances — Part 2: Operational and technical requirements for air ambulances*

EN 60601-2-20:2009, *Medical electrical equipment — Part 2-20: Particular requirements for the basic safety and essential performance of infant transport incubators (IEC 60601-2-20:2009)*

EN ISO 407:2004, *Small medical gas cylinders — Pin-index yoke-type valve connections (ISO 407:2004)*

EN ISO 7396-1:2016, *Medical gas pipeline systems — Part 1: Pipeline systems for compressed medical gases and vacuum (ISO 7396-1:2016)*

EN ISO 7396-2:2007, *Medical gas pipeline systems — Part 2: Anaesthetic gas scavenging disposal systems (ISO 7396-2:2007)*

EN ISO 9170-1:2008, *Terminal units for medical gas pipeline systems — Part 1: Terminal units for use with compressed medical gases and vacuum (ISO 9170-1:2008)*

ISO 7166:1985, *Aircraft — Rail and stud configuration for passenger equipment and cargo restraint*

MIL-DTL-5015H, *Detail Specification: Connectors, Electrical, Circular Threaded, An Type, General Specification for (18 May 2000) (Superseding MIL-C-5015G)*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN