

UNIVERSAL DECIMAL CLASSIFICATION

ENGLISH FULL EDITION

Fourth International Edition
(FID Publication No. 179)

BS 1000 [681.8/.9]: 1972

UDC 681.8/.9
TECHNICAL ACOUSTICS . MUSICAL
INSTRUMENTS . ENGRAVING AND
SCULPTING MACHINES

THIS BRITISH STANDARD, having been approved by the Documentation Standards Committee, was published under the authority of the Executive Board on 31 January, 1972.

SBN: 580 06977 X

In order to keep abreast of progress British Standards are subject to periodical review. Suggestions for improvements will be recorded and in due course brought to the notice of the committees charged with the revision of the standards to which they refer.

A complete list of British Standards, numbering over 5000, fully indexed and with a note of the contents of each, will be found in the British Standards Yearbook, which may be purchased from the BSI Sales Department. It may also be consulted in many public libraries and similar institutions.

Attention is drawn to the following British Standards:

BS 1000A	Universal Decimal Classification. Abridged English Edition.
	Details of the trilingual 10-Year Supplement to Abridged UDC Editions are given on page 23.
BS 1000C	Guide to the Universal Decimal Classification (UDC).
BS 1000	Universal Decimal Classification. English Full Edition.
BS 1000 [50/53]:1943	UDC 50 General works on pure science. UDC 51 Mathematics. UDC 52 Astronomy. Geodesy. UDC 53 Physics
BS 1000 [621.3]:1964	UDC 621.3 Electrical engineering
BS 1000 [654]:1969	UDC 654 Telecommunication services: organization, administration and operation
BS 1000 [669]:1949	UDC 669 Metallurgy
BS 1000 [674]:1970	UDC 674 Timber and woodworking industry
BS 1000 [678/679]:1954	UDC 678 Macromolecular materials (rubbers and plastics). UDC 679 Industries based on stone and other processable materials
BS 1000 [684]:1968	UDC 684 Furniture and allied trades
*BS 1000 [7/72]	UDC 7/72 The arts in general. Physical planning. Architecture
BS 1000 [73/76]	UDC 73/76 Fine and applied arts
BS 1000 [77]:1968	UDC 77 Photography
BS 1000 [78]:1971	UDC 78 Music

* In course of preparation.

British Standards are revised, when necessary, by the issue either of separate amendments or of revised editions. It is important that users of British Standards should ascertain that they are in possession of the latest amendments or editions.

The following BSI reference relates to the work on this standard:
Committee reference OC/20/4

CO-OPERATING ORGANIZATIONS

The Documentation Standards Committee, under whose supervision this British Standard was prepared, consists of representatives from the following Government departments and scientific, technical and professional organizations:

Aslib	Ministry of Defence
Biological Council	*National Central Library
Bodleian Library	National Lending Library for Science and Technology
Booksellers' Association of Great Britain and Ireland	National Library of Scotland
British Council	National Library of Wales
British Museum	National Reference Library of Science and Invention
British National Bibliography	National Reprographic Centre for documentation
Cambridge University Library	Periodical Publishers' Association
*Commonwealth Agricultural Bureaux	Permanent Committee on Geographical Names (Royal Geographical Society)
Construction Industry Research and Information Association	Publishers' Association
Department of Education and Science: Office for Scientific and Technical Information	Royal Institute of British Architects
*Department of Trade and Industry	Royal Society
H.M. Stationery Office	Science Abstracts
*Institute of Information Scientists	*Science Museum Library
Institute of Journalists	Society of Indexers
Institute of Technical Publicity and Publications	*Standing Conference of National and University Libraries (SCONUL)
*Library Association	

The organizations marked with an asterisk, together with the following, were directly represented on the committee entrusted with the preparation of this standard:

Association of British Library Schools	Ealing Technical College (School of Librarianship)
British National Film Catalogue	Royal Institution of Chartered Surveyors
British Steel Industry	United Kingdom Atomic Energy Authority
Classification Research Group	University College London (School of Librarianship)
College of Aeronautics, Cranfield	

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to BS 1000[681.8/.9] : 1972

Universal Decimal Classification. English Full Edition
UDC 681.8/.9 Technical acoustics. Musical instruments.

Engraving and sculpting machines

Revised text

Foreword. In the first sentence of the fourth paragraph, delete 'up to Series 7, No. 5, dated March, 1971.' and substitute 'up to Series 8, No. 2, dated September, 1972.'

New text

Page 13. 681.883 Delete the existing text and substitute the following:

681.883	SONAR METHODS AND EQUIPMENT.	681.883.22	Pulsed sonar systems
	UNDERWATER OBJECT LOCATION,	.24	Continuous-radiation systems
	ECHO RANGING AND SOUNDING	.242	Frequency-modulated systems
	→534 Acoustics, vibrations	.245	Amplitude-modulated systems
	551.46 Oceanology. Oceanography	.26	Bearing by means of nondirectional systems
	551.463 Sea water, physical properties	.27	Bearing by means of directional systems
	556 Hydrosphere. Hydrology	.28	Binaural bearing
	621.3 Electrical engineering	.4	Sonar equipment (including countermeasures and navigation systems), e.g.
	623.983 Underwater (e.g. anti-submarine) detectors, ASDIC etc—Naval engineering		681.883.4(26.03) Deep-water device equipment
	<i>Further particulars may be denoted by the common auxiliaries of place, e.g.</i>	.41	Sonars
	681.883(26.03) Deep-water devices	.42	Echo-sounding apparatus
		.43	Sound locators. Hydrophones
		.44	Sonobuoys
		.45	Underwater communication. Supersonic communication
Special auxiliary subdivisions for 681.883			Voice communication.
681.883.02	Methods of target search(ing)	.452	Underwater cableless telephones
.022	Active methods		Supersonic telegraphy
.024	Passive methods	.454	Acoustic telemetering systems
.03	Resolution	.46	Equipment for sonar search (for naval purposes)
.04	Range	.47	Countermeasures to sonar equipment
.05	Means of sweeping or scanning	.472	Antihydrolocational equipment
.052	Step(-by-step) sweep	.474	Hydroacoustic noise generating
.053	Circular scanning	.477	False target imitators
.054	Lateral scanning	.48	Sonar navigation systems
.06	Sonar systems and equipment according to location	.482	Doppler navigation systems
	<i>Further particulars may be denoted by the special auxiliary subdivisions listed under 62, e.g.</i>	.484	Hydroacoustic responder beacons, e.g.
	681.883.06—182.2 Stationary		681.883.484.022 Active (pingers, beepers)
	—182.4 Portable		.024 Passive (transponders)
.062	Shipborne systems	.485	Hydroacoustic means for under-ice navigation
.2	Surface-ship systems	.6	Sonar units
.4	Submarine systems	.62	Elements and units of transmitting channel
.063	Seabed systems	.63	Elements and units of receiver-amplifier channel
.064	Dipping systems	.65	Adjusting and supervisory equipment.
.065	Buoy-borne systems		Imitators, trainers
.066	Towed systems	.67	Hydroacoustic antennas.
.067	Free-floating systems		Hydroacoustic transducers
.068	Airborne systems		→534.232 Electroacoustic radiating elements and transducers
.07	Sonar systems and equipment according to purpose	.7	Display and recording devices (indicators and recorders)
.072	Research	.74	Auditory sensation devices
.074	Navigation	.75	Visual observation devices
.078	Special purpose (military, naval)	.751	One-dimensional
		.752	Two-dimensional
Principal divisions (continued)		.753	Three-dimensional
681.883.2	Sonar systems according to type of radiation	.77	Target classification equipment
.022	Active systems	.9	Other echo-ranging or sounding techniques and equipment
.024	Passive systems		

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Page 16. Delete 'Hydrophones 681.883'.

Page 18. Delete 'Sonar 681.88'.

Page 19. Delete 'Submarine sound detection 681.883' and 'Water sound detection 681.883'.

Page 19. At the end of the index, add the following:

SUPPLEMENTARY INDEX

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- Antihydrolocational equipment 681.883.472
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- Beepers 681.484.022
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 - see also* Sonobuoys
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 - sonar 681.883.024
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UNIVERSAL DECIMAL CLASSIFICATION

ENGLISH FULL EDITION

UDC 681.8/.9 TECHNICAL ACOUSTICS

MUSICAL INSTRUMENTS

ENGRAVING AND SCULPTING MACHINES

FOREWORD

The English version of the Universal Decimal Classification (UDC) is being prepared and published as BS 1000 by the British Standards Institution (BSI) at the original joint request of the British Society for International Bibliography (BSIB) and the Association of Special Libraries and Information Bureaux (ASLIB), now amalgamated as Aslib. The first English full edition is the fourth international edition authorized by the Fédération Internationale de Documentation (FID) and has the approval of the Education Foundation, Lake Placid Club, New York, proprietors of the Dewey Decimal Classification, from which the UDC derives.

This section is part of the English Full Edition and existing and prospective users are strongly advised not to use it in isolation but in conjunction with the Abridged English Edition, BS 1000A. The abridged edition refers to many other subjects of interest to users which are not listed in this schedule and it provides a conspectus of the whole scheme, together with an introduction to its use. For further practical information about the principles, application and utilization of the scheme, users should refer to BS 1000C 'Guide to the Universal Decimal Classification (UDC)'. A survey of UDC editions in English and other languages will be found on page 21 of this volume.

Because BSI is making every effort to complete the first English Full Edition of the UDC by publishing without delay those parts of BS 1000 which are lacking, it is possible that some errors, imperfections and inconsistencies will be found in this section. The Institution would like to emphasize however that every user has the opportunity to submit suggestions for improvements; these will be welcomed and considered by the appropriate bodies. Improvements involving major changes in the order and arrangement of the classification can only be introduced by international agreement (*via* the British Standards Institution) but criticisms of terminology, translation, etc., affecting the English edition as such can be dealt with by BSI.

This edition of UDC 681.8/.9 'Technical acoustics. Musical instruments. Engraving and sculpting machines' includes modifications authorized in 'Extensions and Corrections to the UDC' up to Series 7, No. 5, dated March, 1971. It is emphasized that the UDC is under continuous revision, and that to keep the schedules up to date it is necessary to consult subsequent issues of 'Extensions and Corrections to the UDC', further information on which is given on page 24. Numbers that have previously been published in UDC English editions and subsequently cancelled are printed in smaller type.

NOTES ON AUXILIARY SIGNS AND SUBDIVISIONS*

Colon sign of relation. To prevent scattering of information on important recurrent concepts and for general ease of cross reference, maximum use of the colon (rather than auxiliary numbers) is recommended, especially for published abstracts, bibliographies or other documents with a wide circulation.

This necessitates a longer notation, however, and for libraries or private collections with adequate alphabetical subject indexes, the use of suitable auxiliary numbers, where available, may provide a simpler and more convenient solution.

Common auxiliaries. The common subdivisions of language =, form (0...), place (1/9), time "...", and point of view .00..., given in the tables of auxiliary signs and subdivisions* are all applicable throughout the whole of sections 681 8/.9, but should only be used to express concepts not otherwise provided for in the schedule.

* The phrase 'auxiliary signs and subdivisions' is often abbreviated to 'auxiliaries'. Further information about the common auxiliary signs and subdivisions may be found in:
BS 1000A: 1961 'Universal Decimal Classification: Abridged English Edition'. Contains tables of the auxiliaries and brief notes about their use as well as a general introduction to the UDC and an abridgement of the whole scheme.
BS 1000C: 1963 'Guide to the Universal Decimal Classification (UDC)'. Among other things, gives detailed information about the significance and use of the auxiliaries.