

DIN ISO 8601-1:2020-12 (E)

Date and time - Representations for information interchange - Part 1: Basic rules (ISO 8601-1:2019)

Contents	Page
National foreword	4
National Annex NA (informative) Explanatory notes	6
NA.1 General	6
NA.2 End of the day: 24:00	6
NA.3 Time of day and duration	6
NA.4 Date with time of day	7
NA.5 Abbreviations for days and months (in German)	8
NA.6 Alphanumeric notation of dates (in German)	9
National Annex NB (informative) Bibliography	10
Foreword	11
Introduction	13
1 Scope	14
2 Normative references	14
3 Terms, definitions and symbols	14
3.1 Terms and definitions	14
3.1.1 Basic concepts	14
3.1.2 Time and date units	19
3.1.3 Representations and formats	22
3.2 Symbols	23
3.2.1 General	23
3.2.2 Time scale component symbols	24
3.2.3 Composite component symbols	24
3.2.4 Symbols used in place of digits or signs	25
3.2.5 Designator symbols	26
3.2.6 Separator symbols	26
4 Fundamental principles	27
4.1 Basic rules	27
4.2 Time scales	27
4.2.1 The Gregorian calendar	27
4.2.2 The week calendar	28
4.2.3 The 24-hour clock	29
4.3 Time scale components and units	29
4.3.1 General	29
4.3.2 Calendar year and years duration	29
4.3.3 Calendar month and months duration	29
4.3.4 Calendar week number and weeks duration	30
4.3.5 Calendar day of month and days duration	30

4.3.6	Calendar day of week	30
4.3.7	Calendar day of year	30
4.3.8	Clock hour and hours duration	31
4.3.9	Clock minute and minutes duration	31
4.3.10	Clock second and seconds duration	31
4.3.11	Decade	31
4.3.12	Century	32
4.3.13	Time shift	32
4.4	Expansion	32
4.5	Leading zeros	32
 5	 Date and time representations	 32
5.1	General	32
5.2	Date	33
5.2.1	General	33
5.2.2	Calendar date	33
5.2.3	Ordinal date	34
5.2.4	Week date	35
5.3	Time of day	36
5.3.1	Local time of day	36
5.3.2	Beginning of the day	37
5.3.3	UTC of day	38
5.3.4	Local time scale and UTC	38
5.3.5	Omissions of time designator	39
5.4	Date and time of day	39
5.4.1	General	39
5.4.2	Complete representations	39
5.4.3	Representations other than complete	41
5.5	Time interval	41
5.5.1	Means of specifying time intervals	41
5.5.2	Duration	42
5.5.3	Complete representations	43
5.5.4	Representations other than complete	44
5.6	Recurring time interval	44
5.6.1	Means of specifying recurring time intervals	44
5.6.2	Separators and designators	44
5.6.3	Complete representations	44
5.6.4	Representations other than complete	45
 Annex A (informative) Example date and time expressions and representations	 46	
Bibliography	52	