BS EN IEC 61784-1-4:2023

BSI Standards Publication

# Industrial networks — Profiles

Part 1-4: Fieldbus profiles — Communication Profile Family 4

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# National foreword

This British Standard is the UK implementation of EN IEC 61784-1-4:2023. It is identical to IEC 61784-1-4:2023. It partially supersedes BS EN IEC 61784-1:2019.

The UK participation in its preparation was entrusted to Technical Committee GEL/65/3, Industrial communications: process measurement and control, including fieldbus.

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

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**Amendments/corrigenda issued since publication**

| Date | Text affected |
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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

# EN IEC 61784-1-4

April 2023

ICS 35.100.20; 35.240.50

Supersedes EN IEC 61784-1:2019 (partially)

English Version

# Industrial networks - Profiles - Part 1-4: Fieldbus profiles - Communication Profile Family 4 (IEC 61784-1-4:2023)

Féseaux industriels - Profils - Partie 1-4: Profils de bus de terrain - Famille de profils de communication 4 (IEC 61784-1-4:2023)

Industrielle Kommunikationsnetze - Profile - Teil 1-4: Feldbusprofile - Kommunikationsprofilfamilie (CPF) 4 (IEC 61784-1-4:2023)

This European Standard was approved by CENELEC on 2023-04-25. CENELEC 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.

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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# European foreword

The text of document 65C/1207/FDIS, future edition 1 of IEC 61784-1-4, prepared by SC 65C "Industrial networks" of IEC/TC 65 "Industrial-process measurement, control and automation" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61784-1-4:2023.

The following dates are fixed:

| | | |
|---|---|---|
| • latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | 2024-01-25 |
| • latest date by which the national standards conflicting with the document have to be withdrawn | (dow) | 2026-04-25 |

This document, together with other parts of the same series, partially supersedes EN IEC 61784-1:2019 and all of its amendments and corrigenda (if any).

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The text of the International Standard IEC 61784-1-4:2023 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standard indicated:

| | |
|---|---|
| IEC 60793 (series) | NOTE Approved as EN IEC 60793 (series) |
| IEC 61158-1 | NOTE Approved as EN IEC 61158-1 |
| IEC 61158-3 (series) | NOTE Approved as EN 61158-3 (series) |
| IEC 61158-4 (series) | NOTE Approved as EN 61158-4 (series) |
| IEC 61158-5 (series) | NOTE Approved as EN 61158-5 (series) |
| IEC 61158-6 (series) | NOTE Approved as EN 61158-6 (series) |
| IEC 61784-1 (series) | NOTE Approved as EN IEC 61784-1 (series) |
| IEC 61784-2 (series) | NOTE Approved as EN IEC 61784-2 (series) |

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# Annex ZA
(normative)

## Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cencenelec.eu.

| Publication | Year | Title | EN/HD | Year |
|---|---|---|---|---|
| IEC 61158 | series | Industrial communication networks - Fieldbus specifications | EN IEC 61158 | series |
| IEC 61158-2 | 2023 | Industrial communication networks - Fieldbus specifications - Part 2: Physical layer specification and service definition | EN IEC 61158-2 | 2023 |
| IEC 61158-3-4 | 2023 | Industrial communication networks - Fieldbus specifications - Part 3-4: Data-link layer service definition - Type 4 elements | EN IEC 61158-3-4 | 2023 |
| IEC 61158-4-4 | 2023 | Industrial communication networks - Fieldbus specifications - Part 4-4: Data-link layer protocol specification - Type 4 elements | EN IEC 61158-4-4 | 2023 |
| IEC 61158-5-4 | 2023 | Industrial communication networks - Fieldbus specifications - Part 5-4: Application layer service definition - Type 4 elements | EN IEC 61158-5-4 | 2023 |
| IEC 61158-6-4 | 2023 | Industrial communication networks - Fieldbus specifications - Part 6-4: Application layer protocol specification - Type 4 elements | EN IEC 61158-6-4 | 2023 |
| IEC 61784-1-0 | 2023 | Industrial networks - Profiles - Part 1-0: Fieldbus profiles - General concepts and terminology | EN IEC 61784-1-0 | 2023 |
| IEC 61784-2-4 | 2023 | Industrial networks - Profiles - Part 2-4: Additional real-time fieldbus profiles based on ISO/IEC/IEEE 8802-3 - CPF 4 | EN IEC 61784-2-4 | 2023 |
| ISO/IEC/IEEE 8802-3 | - | Telecommunications and exchange between information technology systems - Requirements for local and metropolitan area networks - Part 3: Standard for Ethernet | - | - |

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|---|---|---|---|---|
| TIA-485-A | 1998 | Electrical Characteristics of Generators and Receivers for Use in Balanced Digital Multipoint Systems | - | - |

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