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INTERNATIONAL STANDARD



**Field device integration (FDI)[®] –
Part 109-1: Profiles – HART[®] and WirelessHART[®]**

INTERNATIONAL
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FIELD DEVICE INTEGRATION (FDI®) –

Part 109-1: Profiles – HART® and WirelessHART®

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IEC 62769-109-1 has been prepared by subcommittee 65E: Devices and integration in enterprise systems, of IEC technical committee 65: Industrial-process measurement, control and automation. It is an International Standard.

This third edition cancels and replaces the second edition published in 2020. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) added content type for DeviceInfo files;
- b) added mapping from HART standard parameters to PA DIM;

The text of this International Standard is based on the following documents:

Draft	Report on voting
65E/864/CDV	65E/921/RVC

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 International Standard is English.

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FIELD DEVICE INTEGRATION (FDI®) –

Part 109-1: Profiles – HART® and WirelessHART®

1 Scope

This part of IEC 62769 specifies an FDI®¹ profile of IEC 62769 for IEC 61784-1_CP 9/1 (HART®)² and IEC 61784-1_CP 9/2 (WirelessHART®)³.

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 62541-100:~~2015~~, *OPC Unified Architecture Specification – Part 100: OPC Device Interface*

IEC 62769-4:~~4~~, *Field device integration (FDI®) – Part 4: FDI® Packages*

IEC 62769-5, *Field device integration (FDI®) – Part 5: ~~FDI~~Information Model*

IEC 62769-7, *Field device integration (FDI®) – Part 7: ~~FDI~~Communication devices*

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⁴~~Under preparation. Stage at the time of publication: IEC/RFDIS-62769-4:2020.~~

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Field device integration (FDI)[®] –
Part 109-1: Profiles – HART[®] and WirelessHART[®]**

**Intégration des appareils de terrain (FDI)[®] –
Partie 109-1: Profils – HART[®] et WirelessHART[®]**



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FIELD DEVICE INTEGRATION (FDI®) –

Part 109-1: Profiles – HART® and WirelessHART®

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INTÉGRATION DES APPAREILS DE TERRAIN (FDI®) –

Partie 109-1: Profils – HART® et WirelessHART®

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L'IEC 62769-109-1 a été établie par le sous-comité 65E: Les dispositifs et leur intégration dans les systèmes de l'entreprise, du comité d'études 65 de l'IEC: Mesure, commande et automatisation dans les processus industriels. Il s'agit d'une Norme internationale.

Cette troisième édition annule et remplace la deuxième édition parue en 2020. Cette édition constitue une révision technique.

Cette édition inclut les modifications techniques majeures suivantes par rapport à l'édition précédente:

- a) ajout du type de contenu pour les fichiers DeviceInfo;
- b) ajout du mapping des paramètres normalisés HART avec le PA DIM (*Process Automation Device Information Model*).

Le texte de cette Norme internationale est issu des documents suivants:

Projet	Rapport de vote
65E/864/CDV	65E/921/RVC

Le rapport de vote indiqué dans le tableau ci-dessus donne toute information sur le vote ayant abouti à son approbation.

La langue employée pour l'élaboration de cette Norme internationale est l'anglais.

Ce document a été rédigé selon les Directives ISO/IEC, Partie 2, il a été développé selon les Directives ISO/IEC, Partie 1 et les Directives ISO/IEC, Supplément IEC, disponibles sous www.iec.ch/members_experts/refdocs. Les principaux types de documents développés par l'IEC sont décrits plus en détail sous www.iec.ch/publications.

Une liste de toutes les parties de la série IEC 62769, publiées sous le titre général *Intégration des appareils de terrain (FDI®)*, se trouve sur le site web de l'IEC.

Le comité a décidé que le contenu de ce document ne sera pas modifié avant la date de stabilité indiquée sur le site web de l'IEC sous webstore.iec.ch dans les données relatives au document recherché. A cette date, le document sera

- reconduit,
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- amendé.

INTÉGRATION DES APPAREILS DE TERRAIN (FDI®) –

Partie 109-1: Profils – HART® et WirelessHART®

1 Domaine d'application

La présente partie de l'IEC 62769 spécifie un profil FDI¹ de l'IEC 62769 pour les profils de communication CP 9/1 (HART[®])² et CP 9/2 (WirelessHART[®])³ définis dans l'IEC 61784-1.

2 Références normatives

Les documents suivants sont cités dans le texte de sorte qu'ils constituent, pour tout ou partie de leur contenu, des exigences du présent document. Pour les références datées, seule l'édition citée s'applique. Pour les références non datées, la dernière édition du document de référence s'applique (y compris les éventuels amendements).

IEC 62541-100, *Architecture unifiée OPC – Partie 100: Interface d'appareils*

IEC 62769-4, *Intégration des appareils de terrain (FDI®) – Partie 4: Paquetages FDI®*

IEC 62769-5, *Intégration des appareils de terrain (FDI®) – Partie 5: Modèle d'information*

IEC 62769-7, *Intégration des appareils de terrain (FDI®) – Partie 7: Appareils de communication*

¹ FDI est une marque déposée de l'organisation à but non lucratif Fieldbus Foundation, Inc. Cette information est donnée à l'intention des utilisateurs du présent document et ne signifie nullement que l'IEC approuve le détenteur de la marque ou l'emploi de ses produits. La conformité n'exige pas l'utilisation de la marque. L'utilisation de la marque exige l'autorisation du détenteur de la marque.

² HART est l'appellation commerciale du consortium FieldComm Group, une organisation à but non lucratif. Cette information est donnée à l'intention des utilisateurs du présent rapport technique et ne signifie nullement que l'IEC approuve le détenteur des appellations commerciales ou l'emploi de ses produits. La conformité n'exige pas l'utilisation de l'appellation commerciale. L'utilisation de l'appellation commerciale exige l'autorisation du détenteur de l'appellation commerciale.

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