



**SLOVENSKI STANDARD**  
**SIST EN 62769-109-1:2015**  
**01-november-2015**

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**Vključitev procesne naprave (FDI) - 109-1. del: Profili - HART® in brezžični HART®  
(IEC 62769-109-1:2015)**

Field Device Integration (FDI) - Part 109-1: Profiles - HART(r) and WirelessHART(r) (IEC 62769-109-1:2015)

Feldgeräteintegration (FDI) - Profile - Teil 109-1: HART(r) und WirelessHART(r) (IEC 62769-109-1:2015)

Intégration des appareils de terrain (FDI) - Partie 109-1: Profils - HART(r) et WirelessHART(r) (IEC 62769-109-1:2015)

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**Ta slovenski standard je istoveten z: EN 62769-109-1:2015**

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**ICS:**

|           |  |  |
|-----------|--|--|
| 25.040.40 | Merjenje in krmiljenje industrijskih postopkov | Industrial process measurement and control |
| 35.240.50 | Uporabniške rešitve IT v industriji            | IT applications in industry                |

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EUROPEAN STANDARD

**EN 62769-109-1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2015

ICS 25.040.40; 35.100

English Version

**Field Device Integration (FDI) - Part 109-1: Profiles - HART(r)  
and WirelessHART(r)  
(IEC 62769-109-1:2015)**

Intégration des appareils de terrain (FDI) - Partie 109-1:  
Profils - HART(r) et WirelessHART(r)  
(IEC 62769-109-1:2015)

Feldgeräteintegration (FDI) - Profile - Teil 109-1: HART(r)  
und WirelessHART(r)  
(IEC 62769-109-1:2015)

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**EN 62769-109-1:2015****Foreword**

The text of document 65E/356/CDV, future edition 1 of IEC 62769-109-1, prepared by SC 65E "Devices and integration in enterprise systems", of IEC/TC 65 "Industrial-process measurement, control and automation" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62769-109-1:2015.

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) 2016-03-23
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2018-06-23

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

|                    |      |  |
|--------------------|------|--|
| IEC 61784-1        | NOTE | Harmonized as EN 61784-1.              |
| IEC 61784-2        | NOTE | Harmonized as EN 61784-2.              |
| IEC 61804 (series) | NOTE | Harmonized as EN 61804 (series).       |
| IEC 62769-1        | NOTE | Harmonized as EN 62769-1.              |
| IEC 62769-2        | NOTE | Harmonized as EN 62769-2.              |
| IEC 62769-3        | NOTE | Harmonized as EN 62769-3 <sup>1)</sup> |
| IEC 62769-6        | NOTE | Harmonized as EN 62769-6.              |

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1) To be published.

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## Annex ZA (normative)

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

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.

NOTE 1 When 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.cenelec.eu](http://www.cenelec.eu).

| <u>Publication</u> | <u>Year</u> | <u>Title</u>   | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|--|--------------|-------------|
| IEC 62541-100      | -           | OPC unified architecture - Part 100: Device Interface              | EN 62541-100 | -           |
| IEC 62769-4        | 2015        | 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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IEC 62769-109-1

Edition 1.0 2015-05

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

**Field Device Integration (FDI) –  
Part 109-1: Profiles – HART® and WirelessHART®**  
(standards.iteh.ai)

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

INTERNATIONAL  
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ICS 25.040.40; 35.100

ISBN 978-2-8322-2638-4

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## FIELD DEVICE INTEGRATION (FDI) –

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

## FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard 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.

The text of this standard is based on the following documents:

|             |                  |
|-------------|------------------|
| CDV         | Report on voting |
| 65E/356/CDV | 65E/419/RVC      |

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 62769 series, published under the general title *Field Device Integration (FDI)*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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## INTRODUCTION

The International Electrotechnical Commission (IEC) draws attention to the fact that it is claimed that compliance with this document may involve the use of patents concerning

- a) method for the supplying and installation of device-specific functionalities, see Patent Family DE10357276;
- b) method and device for accessing a functional module of automation system, see Patent Family EP2182418;
- c) methods and apparatus to reduce memory requirements for process control system software applications, see Patent Family US2013232186;
- d) extensible device object model, see Patent Family US12/893,680.

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- d) Rockwell Automation Technologies, Inc.  
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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 profile of IEC 62769 for IEC 61784-1\_CP 9/1 (HART®)<sup>1</sup> and IEC 61784-1\_CP 9/2 (WirelessHART®)<sup>1</sup>.

## 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.

IEC 62541-100, *OPC unified architecture – Part 100: Device Interface*

IEC 62769-4:2015, *Field Device Integration (FDI) – Part 4: FDI Packages*

NOTE IEC 62769-4 is technically identical to FDI-2024.

IEC 62769-5, *Field Device Integration (FDI) – Part 5: FDI Information Model*

NOTE IEC 62769-5 is technically identical to FDI-2025.  
<https://standards.iteh.ai/catalog/standards/sist/dc53501e-40bf-4476-a640-35574d050635/en-62769-109-1-2015>

IEC 62769-7, *Field Device Integration (FDI) – Part 7: Communication Devices*

NOTE IEC 62769-7 is technically identical to FDI-2027.

## 3 Terms, definitions, abbreviated terms and acronyms

### 3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 62541-100, IEC 62769-4, IEC 62769-5 and IEC 62769-7 apply.

### 3.2 Abbreviated terms and acronyms

For the purposes of this document, the following abbreviations apply:

|      |   |
|------|---|
| CP   | Communication profile (see IEC 61784-1 or IEC 61784-2)        |
| CPF  | Communication profile family (see IEC 61784-1 or IEC 61784-2) |
| EDD  | Electronic Device Description (see IEC 61804)                 |
| EDDL | Electronic Device Description Language (see IEC 61804)        |
| FDI  | Field Device Integration                                      |

<sup>1</sup> HART and WirelessHART are the trade names of the non-profit consortium HART Communication Foundation, Austin, Texas, USA. This information is given for the convenience of users of this document and does not constitute an endorsement by IEC of the trademark holder or any of its products. Compliance does not require use of the trade names. Use of the trade names requires permission of the trade name holder.