

<b>STN</b>	<b>Otvorená dátová komunikácia v komplexných automatických riadiacich systémoch prevádzky a v manažérstve budov</b> <b>Komunikačný protokol pre sieťovo prepojené riadiace systémy (CNP)</b> <b>Časť 9: Bezdrôtová komunikácia v pásmach ISM</b>	<b>STN</b> <b>EN 14908-9</b>  74 7306
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Open Data Communication in Building Automation, Controls and Building Management - Control Network Protocol - Part 9: Wireless Communication in ISM bands

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

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English Version

## Open Data Communication in Building Automation, Controls and Building Management - Control Network Protocol - Part 9: Wireless Communication in ISM bands

Réseau ouvert de communication de données pour  
l'automatisation, la régulation et la gestion technique  
du bâtiment - Protocole de contrôle du réseau - Partie  
9 : Communication sans fil dans les bandes ISM

Firmenneutrale Datenkommunikation für die  
Gebäudeautomation und Gebäudemanagement -  
Steuerungs-Netzwerk-Protokoll - Teil 9: Drahtlose  
Kommunikation im ISM Band

This European Standard was approved by CEN on 8 July 2021.

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**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

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**EN 14908-9:2021 (E)****European foreword**

This document (EN 14908-9:2021) has been prepared by Technical Committee CEN/TC 247 “Building Automation, Controls and Building Management”, the secretariat of which is held by SNV.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2022, and conflicting national standards shall be withdrawn at the latest by March 2022.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document is part of a series of European Standards for open data transmission in building automation, control and in building management systems. The content of this document covers the data communications used for management, automation/control and field functions. This document is based on the American standards EIA/CEA-709.1-B Control Network Protocol Specification.

This document is part of a series of European Standards under the general title *Open Data Communication in Building Automation, Controls and Building Management — Control Network Protocol*, which comprises the following parts:

- *Part 1: Protocol Stack*
- *Part 2: Twisted Pair Communication*
- *Part 3: Power Line Channel Specification*
- *Part 4: IP-Communication*
- *Part 5: Implementation*
- *Part 6: Application elements*
- *Part 7: Communication via internet protocols*
- *Part 8: Communication using Broadband over Power Line Networks — with internet protocols*
- *Part 9: Wireless Communication in ISM bands (this document)*

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## **Introduction**

This document enables utilization of wireless communication in the general title *Control Network Protocol (CNP)* in the EN 14908 series. The wireless communication can provide fast and easy system deployment, robust, de-centralized and autonomous network operation for EN 14908 based applications.

Wireless communication is defined to operate in ISM bands, which are licensed exempt bands available either regionally or globally.

**EN 14908-9:2021 (E)****1 Scope**

This document specifies an adaptation layer for the control network protocol (CNP), as described in EN 14908-1 to utilize wireless communication network. This document defines the services of the wireless communication provided to CNP layer for delivering data and commands towards and from sensors, actuators, etc. which are wirelessly connected as part of the EN 14908-1 network.

In addition, this document defines the requirements for the radio communication applicable for CNP layer operation.

For the radio communication different frequency bands can be utilized. Annex A defines requirement for operation in different frequency bands.

**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.

EN 14908-1:2014, *Open Data Communication in Building Automation, Controls and Building Management - Control Network Protocol - Part 1: Protocol Stack*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**