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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 13757-5:2008 sisaldb Euroopa standardi EN 13757-5:2008 ingliskeelset teksti.	This Estonian standard EVS-EN 13757-5:2008 consists of the English text of the European standard EN 13757-5:2008.
Standard on kinnitatud Eesti Standardikeskuse 10.11.2008 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.	This standard is ratified with the order of Estonian Centre for Standardisation dated 10.11.2008 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.
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**ICS** 33.200, 35.100.10, 35.100.20

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 13757-5**

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ICS 33.200; 35.100.10; 35.100.20

English Version

**Communication systems for meters and remote reading of  
meters - Part 5: Wireless relaying**

Systèmes de communication et de télérelé des  
compteurs - Partie 5 : Relais sans fil

Kommunikationssysteme für Zähler und deren  
Fernablesung - Teil 5: Weitervermittlung

This European Standard was approved by CEN on 16 August 2008.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
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## Foreword

This document (EN 13757-5) has been prepared by Technical Committee CEN/TC 294 "Communication systems for meters and remote reading of meters", the secretariat of which is held by DS.

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of an identical text or by endorsement, at the latest by April 2009, and conflicting national standards shall be withdrawn at the latest by April 2009.

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

EN 13757 consists of the following parts, under the general title *Communication systems for meters and remote reading of meters*:

- *Part 1: Data exchange*
- *Part 2: Physical and link layer*
- *Part 3: Dedicated application layer*
- *Part 4: Wireless meter readout (Radio meter reading for operation in the 868 MHz to 870 MHz SRD band)*
- *Part 5: Wireless relaying*
- *Part 6: Local Bus*

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

## 1 Scope

This standard defines the requirements for the protocols to use when performing relaying in wireless meter readout networks. This document is an extension to Part 4 of EN 13757, *Wireless meter readout (Radio meter reading for operation in the 868 MHz to 870 MHz SRD band)*. It supports the routing of mode R2, but the routing of mode S and T is not supported.

The main use of this standard is to support routed wireless networks for the readout of meters.

**NOTE** Electricity meters are not covered by this standard, as the standardisation of remote readout of electricity meters is a task for IEC/CENELEC.

## 2 Normative references

The following referenced documents are indispensable for the application 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 13757-1:2002, *Communication system for meters and remote reading of meters – Part 1: Data exchange*

EN 13757-3:2004, *Communication systems for and remote reading of meters – Part 3: Dedicated application layer*

EN 13757-4:2005, *Communication systems for meters and remote reading of meters – Part 4: Wireless meter readout (Radio meter readout for operation in the 868 MHz to 870 MHz SRD band)*

EN 60870-5-1:1993, *Telecontrol equipment and systems – Part 5: Transmission protocols – Section 1: Transmission frame formats (IEC 60870-5-1:1990)*

EN 60870-5-2:1993, *Telecontrol equipment and systems – Part 5: Transmission protocols – Section 2: Link transmission procedures (IEC 60870-5-2:1992)*

EN 62054-21, *Electricity metering (a.c.) – Tariff and load control – Part 21: Particular requirements for time switches (IEC 62054-21:2004)*

ETSI EN 300 220-1:2000, *ElectroMagnetic Compatibility and Radio Spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW; Part 1: Technical characteristics and test methods*

ETSI EN 300 220-2:2000, *ElectroMagnetic Compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW; Part 2: Supplementary parameters not intended for conformity purposes*

ETSI EN 301 489-1:2008, *Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements*

ETSI EN 301 489-3:2002, *Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz*

RFC 1662 July 1994, *HDLC-like Framing, Appendix C. Fast Frame Check Sequence (FCS) Implementation*

## 3 Terms and definitions

For the purpose of this European Standard, the following terms and definitions apply.