



BSI Standards Publication

# Energy Performance of Buildings — Control for heating, ventilating and air-conditioning applications

Part 2: Accompanying TR prEN 15500-1:2015 - Modules M3-5, M4-5, M5-5

**National foreword**

This Published Document is the UK implementation of CEN/TR 15500-2:2016.

The UK participation in its preparation was entrusted to Technical Committee RHE/16, Performance requirements for control systems.

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

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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**Energy Performance of Buildings - Control for heating,  
ventilating and air-conditioning applications - Part 2:  
Accompanying TR prEN 15500-1:2015 - Modules M3-  
5,M4-5,M5-5**

Begleitend zu TR zu EN 15500

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## European foreword

This document (CEN/TR 15500-2:2016) has been prepared by Technical Committee CEN/TC 247 “Building Automation, Controls and Building Management”, the secretariat of which is held by SNV.

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 has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

This document is currently divided into the following parts:

- Control for heating, ventilating and air-conditioning applications — Part 1: Electronic individual zone control equipment — Modules M3-5, M4-5, M5-5 [currently at Enquiry stage];
- Control for heating, ventilating and air-conditioning applications — Part 2: Accompanying prEN 15500-1:2016 Modules M3-5, M4-5, M5-5 [the present Technical Report; currently at Voting stage].

## Introduction

The CENSE project, the discussions between CEN and the Concerted action highlighted the high page count of the entire package due to a lot of “textbook” information. This resulted in flooding and confusing the normative text.

A huge amount of informative contents shall indeed be recorded and available for users to properly understand, apply and nationally adapt the EPB standards.

The detailed technical rules CEN/TS 16629 Detailed Technical Rules ask for a clear separation between normative and informative contents:

- to avoid flooding and confusing the actual normative part with informative content;
- to reduce the page count of the actual standard;
- to facilitate understanding of the package.

Therefore each EPB standard shall be accompanied by an informative technical report, like this one, where all informative contents is collected.

Table 1 shows the relative position of this TR within the EN EPB set of standards.

Table 1 — Position of this TR within the EPBD set of standards

Over-arching	Building (as such)	Technical Building System									
		Descriptions	Heating	Cooling	Ventilation	Humidification	Dehumidification	Domestic Hot waters	Lighting	Building automation and control	PV, wind, ..
M1	M2		M3	M4	M5	M6	M7	M8	M9	M10	M11
General	General	General									
Common terms and definitions; symbols, units and subscripts	Building Energy Needs	Needs									
Application	(Free) Indoor Conditions without Systems	Maximum Load and Power									
Ways to Express Energy Performance	Ways to Express Energy Performance	Ways to Express Energy Performance									
Building Functions and Building Boundaries	Heat Transfer by Transmission	Emission and control	x	x	x						
Building Occupancy and Operating Conditions	Heat Transfer by Infiltration and Ventilation	Distribution and control									
Aggregation of Energy Services and Energy Carriers	Internal Heat Gains	Storage and control									
Building Partitioning	Solar Heat Gains	Generation and control									
Calculated Energy Performance	Building Dynamics (thermal mass)	Load dispatching and operating conditions									

Over-arching	Building (as such)	Technical Building System									
Descriptions	Descriptions	Descriptions	Heating	Cooling	Ventilation	Humidification	Dehumidification	Domestic Hot waters	Lighting	Building automation and control	PV, wind, ..
M1	M2		M3	M4	M5	M6	M7	M8	M9	M10	M11
Measured Energy Performance	Measured Energy Performance	Measured Energy Performance									
Inspection	Inspection	Inspection									
Ways to Express Indoor Comfort		BMS									
External Environment Conditions											
Economic Calculation											

## 1 Scope

This Technical Report refers to prEN 15500-1, *Control for heating, ventilating and air-conditioning applications — Part 1: Electronic individual zone control equipment — Modules M3-5,M4-5,M5-5*.

It contains information to support the correct understanding, use and national adaption of prEN 15500-1:2016.

This Technical Report does not contain any normative provision.

## 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.

prEN 15500-1:2016, *Control for heating, ventilating and air-conditioning applications — Part 1: Electronic individual zone control equipment — Modules M3-5,M4-5,M5-5*

EN ISO 7345:1995, *Thermal insulation - Physical quantities and definitions (ISO 7345:1987)*

prEN ISO 52000-1:2016, *Energy performance of buildings — Overarching EPB assessment — Part 1: General framework and procedures (ISO/DIS 52000-1:2015)*