



BSI Standards Publication

Controls for heating systems

Part 6: Accompanying TR prEN

12098-1:2015 — Modules M3-5,6,7,8

National foreword

This Published Document is the UK implementation of CEN/TR 12098-6:2016.

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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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prEN 12098-1:2015 - Modules M3-5,6,7,8**

Begleitender TR zu EN 12098-1

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European foreword

This document (CEN/TR 12098-6:2016) 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:

- Controls for heating systems — Part 1: Control equipment for hot water heating systems;
- Controls for heating systems — Part 3: Control equipment for electrical heating systems;
- Controls for heating systems — Part 5: Start-stop schedulers for heating systems;
- Controls for heating systems — Part 6: Accompanying TR prEN 12098-1:2016 Modules M3-5,6,7,8 [the present Technical Report; currently at Voting stage];
- Controls for heating systems — Part 7: Accompanying TR prEN 12098-3:2016 Modules M3-5,6,7,8 [Technical Report; currently at Voting stage];
- Controls for heating systems — Part 8: Accompanying TR prEN 12098-5:2016 Modules M3-5,6,7,8 [Technical Report; currently at Voting stage].

Introduction

The CENSE project, the discussion 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 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 content is collected.

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

Table 1 — Relative position of this TR within the EN EPB package standards

Submodule	Over-arching Descriptions	Building (as such) Descriptions	Technical Building System									
			Descriptions	Heating	Cooling	Ventilation	Humidification	Dehumidification	Domestic Hot waters	Lighting	Building automation and control	PV, wind
sub1	M1	M2		M3	M4	M5	M6	M7	M8	M9	M10	M11
1	General	General	General									
2	Common terms and definitions; symbols, units and subscripts	Building Energy Needs	Needs									
3	Application	(Free) Indoor Conditions without Systems	Maximum Load and Power									
4	Ways to Express Energy Performance	Ways to Express Energy Performance	Ways to Express Energy Performance									
5	Building Functions and Building Boundaries	Heat Transfer by Transmission	Emission and control	x								
6	Building Occupancy and Operating Conditions	Heat Transfer by Infiltration and Ventilation	Distribution and control	x								
7	Aggregation of Energy Services and Energy Carriers	Internal Heat Gains	Storage and control	x								
8	Building	Solar	Generation	x								

Submodule	Over-arching Descriptions	Building (as such) Descriptions	Technical Building System										
			Descriptions	Heating	Cooling	Ventilation	Humidification	Dehumidification	Domestic Hot waters	Lighting	Building automation and control	PV, wind, ..	
sub1	M1	M2		M3	M4	M5	M6	M7	M8	M9	M10	M11	
	Partitioning	Heat Gains	and control										
9	Calculated Energy Performance	Building Dynamics (thermal mass)	Load dispatching and operating conditions										
10	Measured Energy Performance	Measured Energy Performance	Measured Energy Performance										
11	Inspection	Inspection	Inspection										
12	Ways to Express Indoor Comfort		BMS										
13	External Environment Conditions												
14	Economic Calculation												

1 Scope

This Technical Report refers to EN 12098-1:2016, *Controls for heating systems — Part 1: Control equipment for hot water heating systems — Modules M3-5,6,7,8*.

It contains information to support the correct understanding, use and national adaption of prEN 12098-1:2016.

This Technical Report does not contain any normative provisions.

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.

EN 215, *Thermostatic radiator valves - Requirements and test methods*

prEN 12098-1:2016, *Controls for heating systems — Part 1: Control equipment for hot water heating systems — Modules M3-5,6,7,8*

prEN 15232-1:2016, *Energy performance of buildings — Part 1: Impact of Building Automation, Controls and Building Management — Modules M10-4,5,6,7,8,9,10*

EN 15316-2-3:2007, *Heating systems in buildings - Method for calculation of system energy requirements and system efficiencies - Part 2-3: Space heating distribution systems*

prEN 15316-3:2016, *Heating systems and water based cooling systems in buildings — Method for calculation of system energy requirements and system efficiencies — Part 3: Space distribution systems (DHW, heating and cooling)*

prEN 15316-4-1:2016, *Heating systems and water based cooling systems in buildings — Method for calculation of system energy requirements and system efficiencies — Part 4-1: Space heating and DHW generation systems, combustion systems (boilers, biomass)*

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*

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

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

3 Terms and definitions

For the purposes of this technical report, the terms and definitions given in EN ISO 7345:1995, prEN ISO 52000-1:2016, prEN 12098-1:2016 and prEN 15232-1:2016 apply.

4 Symbols and abbreviations

4.1 Symbols

For the purposes of this European Standard, the symbols given in prEN ISO 52000-1:2016 and prEN 12098-1:2016 (the accompanied EPB standard) apply.