Regulácia vykurovacích systémov. Časť 6: Sprievodná technická správa prEN 12098-1: 2015 - Moduly M3-5,6,7,8.	TNI CEN/TR 12098-6
	06 0330

Controls for heating systems - Part 6: Accompanying TR prEN 12098-1:2015 - Modules M3-5,6,7,8

Táto technická normalizačná informácia obsahuje anglickú verziu CEN/TR 12098-6:2016. This Technical standard information includes the English version of CEN/TR 12098-6:2016.

Táto technická normalizačná informácia bola oznámená vo Vestníku ÚNMS SR č. 01/17

124057

TECHNICAL REPORT RAPPORT TECHNIQUE TECHNISCHER BERICHT

CEN/TR 12098-6

August 2016

ICS 91.140.10; 97.120

English Version

Controls for heating systems - Part 6: Accompanying TR prEN 12098-1:2015 - Modules M3-5,6,7,8

Begleitender TR zu EN 12098-1

This Technical Report was approved by CEN on 11 April 2016. It has been drawn up by the Technical Committee CEN/TC 247.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Cont	ents	Page
Europ	ean foreword	3
Introd	luction	4
1	Scope	7
2	Normative references	
3	Terms and definitions	7
4 4.1 4.2	Symbols and abbreviations	7
5 5.1 5.2 5.2.1 5.2.2	Control heating systems, main design rules	8 8 8
6 6.1 6.1.1 6.1.2 6.1.3 6.1.4 6.2 6.3 6.4 6.5 6.5.1 6.5.2 6.5.3 6.5.4 6.6	Control heating functions and they impact	
7 7.1 7.2 7.2.1 7.2.2 7.2.3 7.2.4	Integrated functions in control systems and their impact	
	x A (informative) Applications of heating control functions for buildingsgraphy	

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

	Over- arching	Building (as such)										
Submodule	Descriptions	Descriptions	Descriptions	Heating	Cooling	Ventilation	Humidification	Dehumidification	Domestic Hot waters	Lighting	Building automation and control	PV, wind,
sub1	M1	M2		M 3	M 4	М5	М6	M7	M8	M 9	M10	M 11
1	General	General	General									
2	Common terms and definitions; symbols, units and subscripts	Building Energy Needs	Needs									
3	Application	(Free) Indoor Condition s without Systems	Maximum Load and Power									
4	Ways to Express Energy Performance	Ways to Express Energy Performa nce	Ways to Express Energy Performance									
5	Building Functions and Building Boundaries	Heat Transfer by Transmis sion	Emission and control	X								
6	Building Occupancy and Operating Conditions	Heat Transfer by Infiltratio n and Ventilatio n	Distribution and control	Х								
7	Aggregation of Energy Services and Energy Carriers	Internal Heat Gains	Storage and control	х								
8	Building	Solar	Generation	X								

CEN/TR 12098-6:2016 (E)

	Over- arching	Building (as such)	Technical Building System									
Submodule	Descriptions	Descriptions	Descriptions	Heating	Cooling	Ventilation	Humidification	Dehumidification	Domestic Hot waters	Lighting	Building automation and control	PV, wind,
sub1	M1	M2		M 3	M 4	M5	М6	M7	M8	M 9	M10	M 11
	Partitioning	Heat Gains	and control									
9	Calculated Energy Performance	Building Dynamics (thermal mass)	Load dispatching and operating conditions									
10	Measured Energy Performance	Measured Energy Performa nce	Measured Energy Performance									
11	Inspection	Inspectio n	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)

koniec náhľadu – text ďalej pokračuje v platenej verzii STN