DIN EN 16947-1:2017-09 (E)

Energy Performance of Buildings - Building Management System - Part 1: Module M10-12

Contents

Page

European foreword 4

Introduction 5

1 Scope 6

2 Normative references 8

3 Terms and definitions 8

4 Symbols and subscripts 9
4.1 Symbols 9
4.2 Subscripts 9

5 Description of the methods 9
5.1 Output of the method 9
5.2 General description of the method(s) 10
5.3 Calculation time steps 10

6 BMS function 1 (management of setpoints) 11
6.1 Output data 11
6.2 Input data - Source of data 11
6.3 Calculation procedure 12
6.3.1 Operating conditions calculation 12
6.3.2 Energy calculation 14

7 BMS function 2 (runtime management) 14
7.1 Output data 14
7.2 Input data 14
7.2.1 Source of data 14
7.2.2 Operating conditions 14
7.3 Calculation procedure 15
7.3.1 Operating conditions calculation 15
7.3.2 Energy calculation 16

8 BMS function 3 (sequencing of generators) 16
8.1 Output data 16
8.2 Input data 16
8.2.1 Source of data 16
8.2.2 Operating conditions 16
8.3 Calculation procedure 16
8.3.1 Operating conditions calculation 16
8.3.2 Energy calculation 17

9 BMS function 4 (Local energy production and renewable energies) 19
9.1 Output data 19
9.2 Input data - source of data 19
9.3 Calculation procedure - Energy calculation 19

10 BMS function 5 (heat recovery / heat shifting) 19
10.1 Output data 19

10.2 Input data 20
10.2.1 Source of data 20
10.2.2 Operating conditions 20

11 BMS function 6 (smart grid) 20
11.1 Output data 20
11.2 Input data 20

12 Simplified input data correlations 20

13 Quality control 20

14 Compliance check 20

Annex A (informative) Short description of BMS main functions 21

Bibliography 22