

ISO/TR 52120-2:2021-12 (E)

Energy performance of buildings - Contribution of building automation, controls and building management - Part 2: Explanation and justification of ISO 52120-1

Contents	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols and abbreviated terms	1
4.1 Symbols.....	1
4.2 Abbreviated terms.....	1
5 Method description	2
5.1 Effect of building automation and control (BAC) and technical building management (TBM).....	2
5.1.1 General.....	2
5.1.2 Control accuracy.....	2
5.1.3 Control function.....	3
5.1.4 Control strategy.....	4
5.2 Description of BAC functions.....	5
5.2.1 General.....	5
5.2.2 Heating control.....	5
5.2.3 Domestic hot water supply control.....	10
5.2.4 Cooling control.....	12
5.2.5 Ventilation and air conditioning control.....	17
5.2.6 Lighting control.....	22
5.2.7 Blind control.....	24
5.3 Method 1 - Impact of BAC and TBM on the energy performance of buildings (detailed method).....	24
5.3.1 Rationale.....	24
5.3.2 Time steps.....	24
5.3.3 Assumptions.....	25
5.3.4 Data input.....	25
5.3.5 Simplified input.....	25
5.3.6 Calculation information.....	25
5.4 Method 2 - Impact of BAC and TBM on the energy performance of buildings (BACS factor method).....	39
5.4.1 Rationale.....	39
5.4.2 Time steps.....	39
5.4.3 Calculation information.....	39
6 Method selection	40
7 Worked out examples	41
8 Information on the accompanying spreadsheet	42
Bibliography	43