
**Building automation and control systems
(BACS) —**

Part 6:
Data communication conformance testing

*Systèmes d'automatisation et de gestion technique du bâtiment —
Partie 6: Essais de conformité de la communication de données*



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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2. www.iso.org/directives

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 205, *Building environment design*.

This third edition cancels and replaces the second edition (ISO 16484-6:2009), of which it forms the subject of a minor revision.

ISO 16484 consists of the following parts, under the general title *Building automation and control systems (BACS) — Data communication conformance testing*:

- *Part 1: Project specification and implementation*
- *Part 2: Hardware*
- *Part 3: Functions*
- *Part 5: Data communication protocol*
- *Part 6: Data communication conformance testing*

Applications and project implementation are to form the subjects of future Parts 4 and 7.

Building automation and control systems (BACS) — Part 6: Data communication conformance testing

1 Scope

This part of ISO 16484 defines a standard method for verifying that an implementation of the BACnet protocol provides each capability claimed in its Protocol Implementation Conformance Statement (PICS) in conformance with the BACnet standard. This part of ISO 16484 provides a comprehensive set of procedures for verifying the correct implementation of each capability claimed on a BACnet PICS, including

- a) support of each claimed BACnet service, either as an initiator, executor, or both,
- b) support of each claimed BACnet object-type, including both required properties and each claimed optional property,
- c) support of the BACnet network layer protocol,
- d) support of each claimed data link option, and
- e) support of all claimed special functionality.

2 Relationship between this part of ISO 16484 and ANSI/ASHRAE 135.1-2011

This part of ISO 16484 comprises the US standard ANSI/ASHRAE 135.1-2011, *Method of Test for Conformance to BACnet*, published by the American National Standards Institute and the American Society of Heating, Refrigerating and Air-Conditioning Engineers.