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Condition monitoring and diagnostics of machines — Data processing, communication and presentation —

Part 2: Data processing

Surveillance et diagnostic d'état des machines — Traitement, échange et présentation des données —

Partie 2: Traitement des données

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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ISO 13374-2 was prepared by Technical Committee ISO/TC 108, *Mechanical vibration, shock and condition monitoring*, Subcommittee SC 5, *Condition monitoring and diagnostics of machines*.

ISO 13374 consists of the following parts, under the general title *Condition monitoring and diagnostics of machines — Data processing, communication and presentation*:

— *Part 1: General guidelines*

— *Part 2: Data processing*

The following part is envisaged:

— Part 3: Communication requirements

This corrected version includes amendments to:

— Figure A.1 [deletion of "(see …)" references in the last four lines of the tabulated matter; deletion of "AGENT …" from the "Technology types" list];

— p. 25 (B.2.3, first line, deletion of "[30], [31]", insertion of "(see Reference [29], [30]");

— p. 29 (B.4.2, first line, deletion of "[21]", insertion of "[23]");

— throughout this part of ISO 1337, the format “see Reference [x]” has been adopted to cite references to publications other than standards.

Introduction

The various computer software systems written for condition monitoring and diagnostics (CM&D) of machines that are currently in use cannot easily exchange data or operate in a plug-and-play fashion without an extensive integration effort. This makes it difficult to integrate systems and provide a unified view of the condition of machinery to users. The intent of Parts 1 to 3 of ISO 13374 is to provide the basic requirements for open CM&D software architectures which will allow CM&D information to be processed, communicated, and displayed by various software packages without platform-specific or hardware-specific protocols.