

DIN ISO 17359

**DIN**

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DIN ISO 17359:2011-09

**Condition monitoring and diagnostics of machines –  
General guidelines (ISO 17359:2018),  
English translation of DIN ISO 17359:2018-05**

Zustandsüberwachung und -diagnostik von Maschinen –  
Allgemeine Anleitungen (ISO 17359:2018),  
Englische Übersetzung von DIN ISO 17359:2018-05

Surveillance et diagnostic d'état des machines –  
Lignes directrices générales (ISO 17359:2018),  
Traduction anglaise de DIN ISO 17359:2018-05

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In case of doubt, the German-language original shall be considered authoritative.

*A comma is used as the decimal marker.*

## Contents

	Page
<b>National foreword</b> .....	<b>3</b>
<b>National Annex NA (informative) Bibliography</b> .....	<b>4</b>
<b>Foreword</b> .....	<b>6</b>
<b>Introduction</b> .....	<b>7</b>
<b>1 Scope</b> .....	<b>8</b>
<b>2 Normative references</b> .....	<b>8</b>
<b>3 Terms and definitions</b> .....	<b>8</b>
<b>4 Overview of condition monitoring procedure</b> .....	<b>8</b>
<b>5 Cost benefit analysis</b> .....	<b>10</b>
<b>6 Equipment audit</b> .....	<b>10</b>
6.1 Identification of equipment .....	10
6.2 Identification of equipment function .....	11
<b>7 Reliability and criticality audit</b> .....	<b>11</b>
7.1 Reliability block diagram .....	11
7.2 Equipment criticality .....	11
7.3 Failure modes, effects and criticality analysis .....	11
7.4 Alternative maintenance tasks .....	12
<b>8 Monitoring method</b> .....	<b>12</b>
8.1 Measurement technique .....	12
8.2 Accuracy of monitored parameters .....	12
8.3 Feasibility of monitoring .....	12
8.4 Operating conditions during monitoring .....	13
8.5 Monitoring interval .....	13
8.6 Data acquisition rate .....	13
8.7 Record of monitored parameters .....	13
8.8 Measurement locations .....	13
8.9 Initial alert/alarm criteria .....	14
8.10 Baseline data .....	14
<b>9 Data acquisition and analysis</b> .....	<b>15</b>
9.1 Measurement and trending .....	15
9.2 Quality of measurements .....	15
9.3 Measurement comparison to alert/alarm criteria .....	15
9.4 Diagnosis and prognosis .....	15
9.5 Improving diagnosis and/or prognosis confidence .....	16
<b>10 Determine maintenance action</b> .....	<b>16</b>
<b>11 Review</b> .....	<b>17</b>
<b>12 Training</b> .....	<b>17</b>
<b>Annex A (informative) Examples of condition monitoring parameters</b> .....	<b>18</b>
<b>Annex B (informative) Matching fault(s) to measured parameter(s) or technique(s)</b> .....	<b>19</b>
<b>Annex C (informative) Typical information to be recorded when monitoring machine types shown in Annex A</b> .....	<b>31</b>
<b>Annex D (informative) Overview of condition monitoring standards</b> .....	<b>33</b>
<b>Bibliography</b> .....	<b>35</b>

## National foreword

The text of ISO 17359:2018 has been prepared by Technical Committee ISO/TC 108 “Mechanical vibration, shock and condition monitoring”, Subcommittee SC 5 “Condition monitoring and diagnostics of machine systems” (Secretariat: SA, Australia). The responsible German body involved in its preparation was *DIN/VDI-Normenausschuss Akustik, Lärminderung und Schwingungstechnik* (DIN/VDI Standards Committee Acoustics, Noise Control and Vibration Engineering), Working Committee NA 001-03-05 AA (NALS/VDI C 5) “Vibration and condition monitoring of machine systems”.

The DIN documents corresponding to the international documents referred to in this document are as follows:

IEC 60034-1	DIN EN 60034-1 (VDE 0530-1)
IEC 60300-3-1	DIN EN 60300-3-1
IEC 60300-3-2	DIN EN 60300-3-2
IEC 60300-3-3	DIN EN 60300-3-3
IEC 60300-3-11	DIN EN 60300-3-11 (VDE 0050-5)
IEC 60812	DIN EN 60812
IEC 61025	DIN EN 61025
IEC 61078	DIN EN 61078
ISO 1217	DIN 1945-1
ISO 5801	DIN EN ISO 5801
ISO 7919 (all parts)	DIN ISO 7919 (all parts)
ISO 8528-9	DIN ISO 8528-9
ISO 9906	DIN EN ISO 9906
ISO 10816 (all parts)	DIN ISO 10816 (all parts)
ISO 13350	DIN EN ISO 13350
ISO 13372	DIN ISO 17359 Supplement 1
ISO 13373 (all parts)	DIN ISO 13373 (all parts)
ISO 13379-1	DIN ISO 13379-1
ISO 18436 (all parts)	DIN ISO 18436 (all parts)
ISO 20816 (all parts)	DIN ISO 20816 (all parts)
ISO 55000	DIN ISO 55000
ISO 55001	DIN ISO 55001

The German Standards are given in National Annex NA.

### Amendments

This standard differs from DIN ISO 17359:2011-09 as follows:

- a) a reference to the ISO 55000 family of asset management standards has been included;
- b) power transformers have been added in Annexes A and B;
- c) Annex D has been updated;
- d) the Bibliography has been revised.

### Previous editions

DIN ISO 17359: 2003-11, 2011-09

## National Annex NA (informative)

### Bibliography

DIN 1945-1, *Displacement compressors — Thermodynamic acceptance and performance tests*

DIN EN 60034-1 (VDE 0530-1), *Rotating electrical machines — Part 1: Rating and performance*

DIN EN 60300-3-1, *Dependability management — Part 3-1: Application guide — Analysis techniques for dependability — Guide on methodology*

DIN EN 60300-3-2, *Dependability management — Part 3-2: Application guide — Collection of dependability data from the field*

DIN EN 60300-3-3, *Dependability management — Part 3-3: Application guide — Life cycle costing*

DIN EN 60300-3-11 (VDE 0050-5), *Dependability management — Part 3-11: Application guide — Reliability centred maintenance*

DIN EN 60812, *Analysis techniques for system reliability — Procedure for failure mode and effects analysis (FMEA)*

DIN EN 61025, *Fault tree analysis (FTA)*

DIN EN 61078, *Analysis techniques for dependability — Reliability block diagram and boolean methods*

DIN EN ISO 5801, *Fans — Performance testing using standardized airways*

DIN EN ISO 9906, *Rotodynamic pumps — Hydraulic performance acceptance tests — Grades 1, 2 and 3*

DIN EN ISO 13350, *Fans — Performance testing of jet fans*

DIN ISO 7919-3, *Mechanical vibration — Evaluation of machine vibration by measurements on rotating shafts — Part 3: Coupled industrial machines*

DIN ISO 8528-9, *Reciprocating internal combustion engine driven alternating current generating sets — Part 9: Measurement and evaluation of mechanical vibrations*

DIN ISO 10816-3, *Mechanical vibration — Evaluation of machine vibration by measurements on non-rotating parts — Part 3: Industrial machines with nominal power above 15 kW and nominal speeds between 120 r/min and 15 000 r/min when measured in situ*

DIN ISO 10816-6, *Mechanical vibration — Evaluation of machine vibration by measurements on non-rotating parts — Part 6: Reciprocating machines with power ratings above 100 kW*

DIN ISO 10816-7, *Mechanical vibration — Evaluation of machine vibration by measurements on non-rotating parts — Part 7: Rotodynamic pumps for industrial applications, including measurements on rotating shafts*

DIN ISO 10816-8, *Mechanical vibration — Evaluation of machine vibration by measurements on non-rotating parts — Part 8: Reciprocating compressor systems*

DIN ISO 10816-21, *Mechanical vibration — Evaluation of machine vibration by measurements on non-rotating parts — Part 21: Horizontal axis wind turbines with gearbox*

DIN ISO 13373-1, *Condition monitoring and diagnostics of machines — Vibration condition monitoring — Part 1: General procedures*