

# ISO 10553:2003-03 (E)

## Horology - Procedure for evaluating the accuracy of quartz watches

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>1</b>
<b>4</b>	<b>Symbols and units .....</b>	<b>2</b>
<b>5</b>	<b>Practical factors affecting accuracy .....</b>	<b>2</b>
<b>5.1</b>	<b>General .....</b>	<b>2</b>
<b>5.2</b>	<b>Accuracy .....</b>	<b>2</b>
<b>5.3</b>	<b>Influence of temperature on accuracy .....</b>	<b>2</b>
<b>5.4</b>	<b>Accidents or abnormal environment .....</b>	<b>3</b>
<b>6</b>	<b>Types of measurement .....</b>	<b>3</b>
<b>7</b>	<b>Test methods .....</b>	<b>3</b>
<b>7.1</b>	<b>General test conditions .....</b>	<b>3</b>
<b>7.2</b>	<b>Ageing test programme .....</b>	<b>4</b>
<b>7.3</b>	<b>Temperature simulation test programme .....</b>	<b>5</b>
<b>7.4</b>	<b>Uncertainty of measurement .....</b>	<b>5</b>
<b>8</b>	<b>Calculation of accuracy .....</b>	<b>6</b>
<b>8.1</b>	<b>General .....</b>	<b>6</b>
<b>8.2</b>	<b>Calculation of the effect of ageing on accuracy .....</b>	<b>6</b>
<b>9</b>	<b>Relationship between the calculated accuracy and the accuracy classification indicated ...</b>	<b>7</b>
<b>10</b>	<b>Indication of the accuracy classification .....</b>	<b>7</b>
<b>Annex A (normative) Statistical evaluation of accuracy .....</b>		<b>8</b>
<b>Annex B (normative) Evaluation of coefficients a and c from the differences of rates .....</b>		<b>11</b>
<b>Annex C (informative) Reliability .....</b>		<b>13</b>
<b>Bibliography .....</b>		<b>14</b>