

# ISO/TS 17242:2014-05 (E)

## Quasi-static calibration procedure for belt force transducers

---

<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>Generalspecifications .....</b>	<b>2</b>
<b>3.1</b>	<b>General .....</b>	<b>2</b>
<b>3.2</b>	<b>Limitations or the application of the test belt strap .....</b>	<b>2</b>
<b>4</b>	<b>Test conditions .....</b>	<b>3</b>
<b>4.1</b>	<b>Test method .....</b>	<b>3</b>
<b>4.2</b>	<b>Clamping length .....</b>	<b>3</b>
<b>4.3</b>	<b>Test velocity .....</b>	<b>3</b>
<b>4.4</b>	<b>Belt strap .....</b>	<b>3</b>
<b>4.5</b>	<b>Load relieving .....</b>	<b>3</b>
<b>4.6</b>	<b>Data acquisition .....</b>	<b>3</b>
<b>4.7</b>	<b>Data evaluation .....</b>	<b>3</b>
<b>4.8</b>	<b>Sensor excitation .....</b>	<b>4</b>
<b>4.9</b>	<b>Environmental conditions .....</b>	<b>4</b>
<b>5</b>	<b>Calibration procedure .....</b>	<b>4</b>
<b>5.1</b>	<b>Conditioning .....</b>	<b>4</b>
<b>5.2</b>	<b>Test preparation .....</b>	<b>4</b>
<b>5.3</b>	<b>Calibration test .....</b>	<b>4</b>
<b>5.4</b>	<b>Data storage .....</b>	<b>4</b>
<b>5.5</b>	<b>Data evaluation .....</b>	<b>4</b>
<b>5.6</b>	<b>Documentation .....</b>	<b>5</b>
	<b>Annex A (normative) Test setup .....</b>	<b>6</b>
	<b>Annex B (normative) Evaluation method .....</b>	<b>7</b>
	<b>Annex C (informative) Belt strap characteristics .....</b>	<b>10</b>
	<b>Annex D (informative) Applications notes .....</b>	<b>12</b>