

# ISO/IEC 22237-6:2024-02 (E)

## Information technology - Data centre facilities and infrastructures - Part 6: Security systems

---

<b>Contents</b>		<b>Page</b>
Foreword .....		v
Introduction .....		vi
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Terms, definitions and abbreviated terms .....</b>	<b>2</b>
<b>3.1</b>	<b>Terms and definitions .....</b>	<b>2</b>
<b>3.2</b>	<b>Abbreviated terms .....</b>	<b>3</b>
<b>4</b>	<b>Conformance .....</b>	<b>3</b>
<b>5</b>	<b>Physical security .....</b>	<b>3</b>
<b>5.1</b>	<b>General .....</b>	<b>3</b>
<b>5.2</b>	<b>Risk analysis and management .....</b>	<b>4</b>
<b>5.3</b>	<b>Designation of data centre spaces: Protection Classes .....</b>	<b>5</b>
<b>6</b>	<b>Protection against unauthorized access .....</b>	<b>5</b>
<b>6.1</b>	<b>General .....</b>	<b>5</b>
<b>6.1.1</b>	<b>Data centre configuration .....</b>	<b>5</b>
<b>6.1.2</b>	<b>Protection Classes .....</b>	<b>5</b>
<b>6.1.3</b>	<b>Protection Classes of specific infrastructures .....</b>	<b>8</b>
<b>6.1.4</b>	<b>Levels for access control .....</b>	<b>8</b>
<b>6.2</b>	<b>Access to the data centre premises .....</b>	<b>8</b>
<b>6.2.1</b>	<b>Premises with external physical barriers .....</b>	<b>8</b>
<b>6.2.2</b>	<b>Premises without external physical barriers .....</b>	<b>9</b>
<b>6.2.3</b>	<b>Roofs .....</b>	<b>10</b>
<b>6.2.4</b>	<b>Access routes .....</b>	<b>10</b>
<b>6.2.5</b>	<b>Parking .....</b>	<b>11</b>
<b>6.2.6</b>	<b>Employees and visitors .....</b>	<b>11</b>
<b>6.2.7</b>	<b>Pathways .....</b>	<b>12</b>
<b>6.2.8</b>	<b>Cabinets, racks and frames .....</b>	<b>12</b>
<b>6.3</b>	<b>Implementation .....</b>	<b>12</b>
<b>6.3.1</b>	<b>Protection Class 1 .....</b>	<b>12</b>
<b>6.3.2</b>	<b>Protection Class 2 .....</b>	<b>13</b>
<b>6.3.3</b>	<b>Protection Class 3 .....</b>	<b>14</b>
<b>6.3.4</b>	<b>Protection Class 4 .....</b>	<b>14</b>
<b>7</b>	<b>Protection against intrusion to data centre spaces .....</b>	<b>15</b>
<b>7.1</b>	<b>General .....</b>	<b>15</b>
<b>7.2</b>	<b>Level for the detection of intrusion .....</b>	<b>15</b>
<b>7.3</b>	<b>Implementation .....</b>	<b>16</b>
<b>7.3.1</b>	<b>Protection Class 1 .....</b>	<b>16</b>
<b>7.3.2</b>	<b>Protection Class 2 .....</b>	<b>16</b>
<b>7.3.3</b>	<b>Protection Class 3 .....</b>	<b>17</b>
<b>7.3.4</b>	<b>Protection Class 4 .....</b>	<b>18</b>
<b>8</b>	<b>Protection against internal fire events (fire events signiting within data centre spaces) .....</b>	<b>18</b>
<b>8.1</b>	<b>General .....</b>	<b>18</b>

8.1.1	Protection Classes .....	18
8.1.2	Fire compartments and barriers .....	19
8.1.3	Fire detection and fire alarm systems .....	20
8.1.4	Fixed firefighting systems .....	20
8.1.5	Portable firefighting equipment .....	23
8.2	Implementation .....	23
8.2.1	Protection Class 1 .....	23
8.2.2	Protection Class 2 .....	23
8.2.3	Protection Class 3 .....	23
8.2.4	Protection Class 4 .....	23
9	Protection against internal environmental events (other than fire within data centre spaces) ....	23
9.1	General .....	23
9.2	Implementation .....	24
9.2.1	Protection Class 1 .....	24
9.2.2	Protection Class 2 .....	24
9.2.3	Protection Class 3 .....	24
9.2.4	Protection Class 4 .....	25
10	Protection against external environmental events (events outside the data centre spaces) .....	25
10.1	General .....	25
10.2	Implementation .....	26
10.2.1	Protection Class 1 .....	26
10.2.2	Protection Class 2 .....	26
10.2.3	Protection Class 3 .....	27
11	Systems to prevent unauthorized access and intrusion .....	27
11.1	General .....	27
11.2	Technology .....	28
11.2.1	Security lighting .....	28
11.2.2	Video surveillance systems .....	28
11.2.3	Intruder and holdup alarm systems .....	29
11.2.4	Access control systems .....	29
11.2.5	Event and alarm monitoring .....	30
	Annex A (informative) Pressure relief: additional information .....	31
	Bibliography .....	33