

The Ingress Protection (IP) rating system is an internationally recognised scale that relates to proven protection against environmental factors such as liquids and solids.

IP NUMBER	FIRST DIGIT (SOLIDS)	SECOND DIGIT (LIQUIDS)
<b>IP00</b>	No protection	Not protected from liquids
<b>IP01</b>	No protection	Protected from condensation
<b>IP02</b>	No protection	Protected from water spray less than 15° from vertical
<b>IP03</b>	No protection	Protected from water spray less than 60° from vertical
<b>IP04</b>	No protection	Protected from water spray from any direction
<b>IP05</b>	No protection	Protected from low pressure water jets from any direction
<b>IP06</b>	No protection	Protected from high pressure water jets from any direction
<b>IP07</b>	No protection	Protected from immersion between 150mm and 1m in depth
<b>IP08</b>	No protection	Protected from long term immersion up to a specified pressure
<b>IP10</b>	Protected from touch by hands and objects greater than 50mm	Not protected from liquids
<b>IP11</b>	Protected from touch by hands and objects greater than 50mm	Protected from condensation
<b>IP12</b>	Protected from touch by hands and objects greater than 50mm	Protected from water spray less than 15° from vertical
<b>IP13</b>	Protected from touch by hands and objects greater than 50mm	Protected from water spray less than 60° from vertical
<b>IP14</b>	Protected from touch by hands and objects greater than 50mm	Protected from water spray from any direction
<b>IP15</b>	Protected from touch by hands and objects greater than 50mm	Protected from low pressure water jets from any direction
<b>IP16</b>	Protected from touch by hands and objects greater than 50mm	Protected from high pressure water jets from any direction
<b>IP17</b>	Protected from touch by hands and objects greater than 50mm	Protected from immersion between 150mm and 1m in depth
<b>IP18</b>	Protected from touch by hands and objects greater than 50mm	Protected from long term immersion up to a specified pressure
<b>IP20</b>	Protected from touch by fingers and objects greater than 12mm	Not protected from liquids
<b>IP21</b>	Protected from touch by fingers and objects greater than 12mm	Protected from condensation
<b>IP22</b>	Protected from touch by fingers and objects greater than 12mm	Protected from water spray less than 15° from vertical
<b>IP23</b>	Protected from touch by fingers and objects greater than 12mm	Protected from water spray less than 60° from vertical
<b>IP24</b>	Protected from touch by fingers and objects greater than 12mm	Protected from water spray from any direction
<b>IP25</b>	Protected from touch by fingers and objects greater than 12mm	Protected from low pressure water jets from any direction
<b>IP26</b>	Protected from touch by fingers and objects greater than 12mm	Protected from high pressure water jets from any direction
<b>IP27</b>	Protected from touch by fingers and objects greater than 12mm	Protected from immersion between 150mm and 1m in depth
<b>IP28</b>	Protected from touch by fingers and objects greater than 12mm	Protected from long term immersion up to a specified pressure
<b>IP30</b>	Protected from tools and small wires greater than 2.5mm	Not protected from liquids
<b>IP31</b>	Protected from tools and small wires greater than 2.5mm	Protected from condensation
<b>IP32</b>	Protected from tools and small wires greater than 2.5mm	Protected from water spray less than 15° from vertical
<b>IP33</b>	Protected from tools and small wires greater than 2.5mm	Protected from water spray less than 60° from vertical
<b>IP34</b>	Protected from tools and small wires greater than 2.5mm	Protected from water spray from any direction

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<b>IP35</b>	Protected from tools and small wires greater than 2.5mm	Protected from low pressure water jets from any direction
<b>IP36</b>	Protected from tools and small wires greater than 2.5mm	Protected from high pressure water jets from any direction
<b>IP37</b>	Protected from tools and small wires greater than 2.5mm	Protected from immersion between 150mm and 1m in depth
<b>IP38</b>	Protected from tools and small wires greater than 2.5mm	Protected from long term immersion up to a specified pressure
<b>IP40</b>	Protected from tools and small wires greater than 1mm	Not protected from liquids
<b>IP41</b>	Protected from tools and small wires greater than 1mm	Protected from condensation
<b>IP42</b>	Protected from tools and small wires greater than 1mm	Protected from water spray less than 15° from vertical
<b>IP43</b>	Protected from tools and small wires greater than 1mm	Protected from water spray less than 60° from vertical
<b>IP44</b>	Protected from tools and small wires greater than 1mm	Protected from water spray from any direction
<b>IP45</b>	Protected from tools and small wires greater than 1mm	Protected from low pressure water jets from any direction
<b>IP46</b>	Protected from tools and small wires greater than 1mm	Protected from high pressure water jets from any direction
<b>IP47</b>	Protected from tools and small wires greater than 1mm	Protected from immersion between 150mm and 1m in depth
<b>IP48</b>	Protected from tools and small wires greater than 1mm	Protected from long term immersion up to a specified pressure
<b>IP50</b>	Limited protection against entry of dust	Not protected from liquids
<b>IP51</b>	Limited protection against entry of dust	Protected from condensation
<b>IP52</b>	Limited protection against entry of dust	Protected from water spray less than 15° from vertical
<b>IP53</b>	Limited protection against entry of dust	Protected from water spray less than 60° from vertical
<b>IP54</b>	Limited protection against entry of dust	Protected from water spray from any direction
<b>IP55</b>	Limited protection against entry of dust	Protected from low pressure water jets from any direction
<b>IP56</b>	Limited protection against entry of dust	Protected from high pressure water jets from any direction
<b>IP57</b>	Limited protection against entry of dust	Protected from immersion between 150mm and 1m in depth
<b>IP58</b>	Limited protection against entry of dust	Protected from long term immersion up to a specified pressure
<b>IP60</b>	Complete protection against entry of dust	Not protected from liquids
<b>IP61</b>	Complete protection against entry of dust	Protected from condensation
<b>IP62</b>	Complete protection against entry of dust	Protected from water spray less than 15° from vertical
<b>IP63</b>	Complete protection against entry of dust	Protected from water spray less than 60° from vertical
<b>IP64</b>	Complete protection against entry of dust	Protected from water spray from any direction
<b>IP65</b>	Complete protection against entry of dust	Protected from low pressure water jets from any direction
<b>IP66</b>	Complete protection against entry of dust	Protected from high pressure water jets from any direction
<b>IP67</b>	Complete protection against entry of dust	Protected from immersion between 150mm and 1m in depth
<b>IP68</b>	Complete protection against entry of dust	Protected from long term immersion up to a specified pressure
<b>IP69K</b>	Complete protection against entry of dust	Protected from steam-jet cleaning