

# Product Specifications

## Smarthub (Reusable)

<b>Temperature Accuracy</b>	0°C to 90°C: $\pm 1^\circ\text{C}$ 90°C to 120°C: $\pm 1.5^\circ\text{C}$
<b>Measurement Frequency</b>	Every 10 mins (Customisable)
<b>Dimensions</b>	100 x 88 x 35 mm, 250g
<b>Battery Life</b>	6 months (replaceable & rechargeable)
<b>IP Rating</b>	IP65
<b>Local SD Card</b>	512 MB ; 100 years (10 mins interval)
<b>No. of Monitoring Points</b>	4
<b>Operating Temperature</b>	-10°C to 60 °C



## Temperature Probe

<b>Sensor Type</b>	NTC Thermistor (PVC insulation)
<b>Probe Tip</b>	Stainless Steel
<b>Cable Length</b>	0.1m to 10m (Customisable)
<b>Diameter</b>	6 to 8 mm



## SmartCure Tank

<b>Temperature Range</b>	Room Temperature to 80 °C
<b>Temperature sensor for water bath</b>	Accurate to $\pm 1^\circ\text{C}$
<b>Heating &amp; Cooling System</b>	Capable of heating at 10 °C /h. Capable of maintaining temperature of water bath to $\pm 2^\circ\text{C}$ /h when compare with in-situ concrete temperature.
<b>Agitating Device</b>	To ensure even temperature distribution
<b>External Dimensions</b>	1700mm (L) x 400mm (W) x 1000mm (H)
<b>Cube Mould Capacity</b>	8x 150mm x 150mm cubes with mould 10x 100mm x 100mm cubes with mould Customisable
<b>AC Input</b>	220-240VAC 1PH
<b>Power</b>	2400 W
<b>Weight</b>	80 kg (without water)
<b>Standard</b>	Complies to BS 1881-130:2013



## ConcreteAI Gateway

<b>Model</b>	DLOS8N Outdoor LoRaWAN Gateway
<b>Power Input</b>	12v 300~500mA
<b>Operating Temperature</b>	-20~85°C
<b>Communication Mode</b>	2.4G WiFi, Ethernet, 3G or 4G cellular
<b>Environment</b>	Lighting Protection
<b>LORAWAN Frequency</b>	AS923 (920-923Mhz range)
<b>IP Rating</b>	IP65
<b>Wireless Signal Range</b>	300m, subjected to the surrounding
<b>Dimension</b>	260 x 90 x 85 mm, 450g
<b>Max No. of Connected Smarthub's</b>	Up to 100



## ConcreteAI Software

<b>Real-time data display</b>	Strength, Temperature, Temperature Differential, Humidity Graphs
<b>Customisable &amp; automatic alerts</b>	Receive alerts via WhatsApp or Dashboard (strength, temperature, temperature differential, device offline, device unplugged)
<b>Download Reports</b>	Download PDF and Excel data
<b>Compatability</b>	Available as a WebApp, compatible with desktop and mobile devices running Android or iOS.

