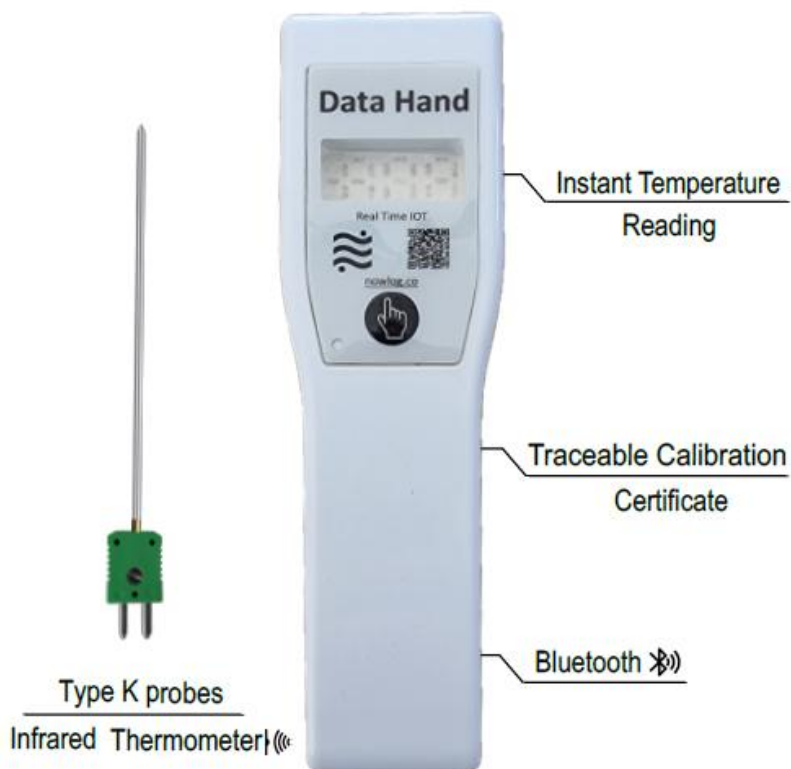


	<b>Datasheet</b>	Document:	DH-V12
		Revision:	A

**Product:** Data Hand

**Description:** Bluetooth Thermometer



## Revision History

Revision	Date	Reason	Edited By
A	27/07/22	Re Created	Lee Fleck

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### 1. Introduction


The Data Hand (DH) is a Handheld Thermometer. It comes with a Calibration Certificate for compliance with Health and Safety regulations. Accuracy is guaranteed to better than  $\pm 0.5^{\circ}\text{C}$ . Readings are updated every second on the large 3 digit LED display.

The Data Hand has Bluetooth data transmission for automated measurements using smart phones and/or tablet Apps.

Plug in stainless steel type K thermocouple probes are used for insertion measurements.

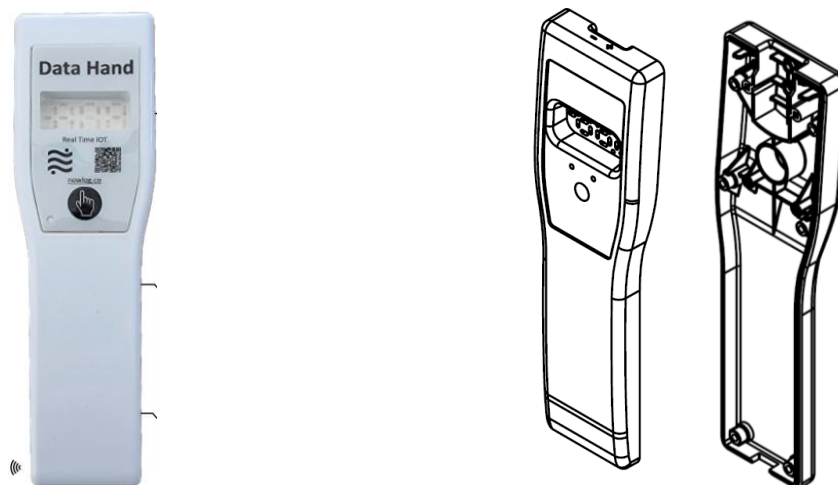
An infrared sensor is used for non invasive surface temperature measurements. Infrared measurements are instantaneous allowing multiple measurements to be taken quickly.



An App is available  for use with the Data Hand. This allows temperature measurement (and other) tasks to be scheduled, performed and reported on. Applications include HACCP Food Safety. Preconfigured templates are available for different types of business operations.

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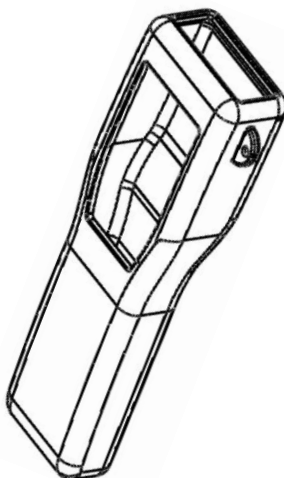
## 2. Enclosure



The custom injection mold cases are manufactured in Medical Grade ABS plastic (with anti bacterial additive). Specifically, in MAGNUM ABS 8391 (complies with U.S.FDA FCN 1525) and in colour - RAL7035 - Light Grey.

The front of the DH is sealed with a membrane keypad which integrates the push button.

A slip on silicone protective sleeve is available to protect the Data Hand in aggressive environments.



<b>Storage and Use</b>	<b>-40°C to + 70°C    0 -100 %RH</b>		
<b>Lifetime</b>	<b>MTBF 10 years    (Mean Time Between Failure)</b>		
<b>Size</b>	<b>170mm (High) x 50mm (Width) x 25mm (Depth)</b>		
<b>Weight</b>	<b>110 grams</b>		
<b>Measurement Range</b>	<b>-270°C to +999°C    [Plug in Insertion Probe]</b>		
	<b>-40°C to + 150°C    [Infrared]</b>		
<b>Response Time</b> <b>t<sub>63%</sub></b>	<b>Plug in Insertion Probe</b>	<b>15 seconds</b>	
	<b>Infrared</b>	<b>1 second</b>	
<b>Typical Accuracy</b> <b>See <sup>1</sup> below</b>	<b>Plug in Insertion Probe</b>	<b>+/- 0.3°C</b>	
	<b>Infrared</b>	<b>+/- 3.0°C</b>	
<b>Resolution</b>	<b>Plug in Insertion Probe</b>	<b>+/- 0.1°C</b>	
	<b>Infrared</b>	<b>+/- 0.1°C</b>	
<b>No use timeout</b>	<b>Settable</b>	<b>1 minute to 8 hours</b>	<b>Default 5 minutes</b>
<b>Display</b>	<b>Blue LED</b>	<b>1 cm TALL bright digits.</b>	
<b>Standby timeout</b>	<b>Settable</b>	<b>1 minute to 8 hours</b>	<b>Default 5 minutes</b>
<b>Battery Types</b>	<b>2 x AA disposable    OR    2 AHr Lithium Polymer</b>		
<b>Battery Lifetime</b> <b>See <sup>2</sup> below</b>	<b>6 months    Change or Recharge.</b>		
<b>Dust and Water Ingression</b>	<b>IP65</b>		

Note <sup>2</sup> Depends on intensity of use. Values are given for 2Ahr battery capacity with the Data Hand making 25 measurements per day.

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## 4. Features

### Sample and Hold

When out of range or disconnected from the App, press the push button and the current measurement will be held. The held value will be flashed on the display and the sounder beeps once per second.

When back in range or reconnected to the App, the held measurement will be sent to the App, the sounder beeps twice in acknowledgement and the Data Hand returns to updating temperatures once per second.

### Auto switch over

When the type K thermocouple probe is plugged in, the Data Hand automatically switches to Insertion Probe mode.

When the type K thermocouple probe is unplugged, the Data Hand automatically switches to Infrared mode. If enabled the Red Laser pointer will illuminate. This indicates the location where the temperature is being measured.