


# ULTAS 20

Property	ULTAS 20 Specification
<b>Description</b>	A double junction thermocouple for accurate referencing of measuring thermocouples and for performing fundamental calibration by simulation and measurement.
<b>Range of ambient use</b>	Generally 20°C ± 15 °C.
<b>Accuracy</b>	<ul style="list-style-type: none"> <li>i. ± 0.15 °C or better when referenced at 0°C and in an ambient of 20 °C.</li> <li>ii. ± 0.10 °C or better when referenced at 20°C and in an ambient of 20 °C.</li> </ul>
<b>Stability</b>	± 0.1 °C or better at an ambient of 20°C per annum but dependent upon use and type.
<b>Cables</b>	Precision thermocouple wire 7/0.2mm, PFA twin twisted pair, BS EN 60584 Class 1 or better. IEC colour coded double junction connected to identical copper wires to reduce thermoelectric errors. Types E, J, K, N, R, S, T & U available. Other constructions available by discussion.
<b>Dimensions</b>	Both the thermocouple and copper wires are each 1500mm long to the cables double junction transition point in the stainless steel sheath.
<b>Sheath material</b>	316 stainless steel 4 mm diameter by 250 mm long.
<b>Cable termination</b>	Bare wire termination or a connector to the customer's requirements by discussion.
<b>Markings</b>	Unique serial number etched onto the sheath and fixed to the end of the copper cable.
<b>Testing and guarantee.</b>	<p>Each thermocouple is issued with a certificate of conformity showing its output voltage when referenced at 0 °C and in an ambient of 20 °C.</p> <p>Benrhos has a no-quibble replacement policy for the first 12 months against any failure due to manufacture.</p>
<b>Similar products</b>	None known.
<b>UKAS calibration</b>	Available from Benrhos via an independent UKAS laboratory.
<b>You  Tube</b>	To be posted.
<b>Notes</b>	<ul style="list-style-type: none"> <li>i. A reference platinum resistance thermometer and digital indicator are both available with or without a UKAS calibration.</li> <li>ii. The Benrhos Iceros+ ice point bath (0 °C ±0.010°C) is a convenient means of checking thermometers and referencing thermocouples.</li> </ul>

