ULTAS 450





Property	ULTAS 450 Specification
Description	A reference platinum resistance thermometer for accurate measurements such as when calibrating other thermometers against it by comparison.
Range	-100 °C to 450°C.
Accuracy	± 0.005 °C or better is possible.
Stability	± 0.010 °C or better at 0°C per annum but dependent upon use.
Sensor type	Precision wire wound sensor. BS EN 60751 Class A. 100 Ω at 0 °C. 4-wire connected.
Hysteresis	± 0.010 °C or better at 0°C.
Self-heating	≤ 0.010 °C at 0°C for a 1 mA current.
Dimensions	6mm diameter and 350mm long to the cable transition point.
Sheath material	316 stainless steel.
Cable	4-wire, screened PTFE insulation. 2 m long or as required. Range -50 °C to 200 °C.
Cable termination	Bare wire termination or a connector to the customerøs requirement by discussion.
Markings	Unique serial number etched onto the sheath and on the end of the cable.
Testing and guarantee.	Each thermometer is temperature cycled to ensure it is stable and issued with a certificate of conformity showing its resistance at 0 °C.
	Benrhos has a no-quibble replacement policy for the first 12 months.
Similar thermometers	Isotech 935-14-16. Fluke 5615-6. ASL T100-450-1.
UKAS calibration	Available from Benrhos via an independent UKAS laboratory.
Notes	 i. A ULTAS 450 reference platinum resistance thermometer with a UKAS calibration is available as an audit item and for customers to assess at a nominal charge. ii. A carrying case is also available. iii. The Benrhos Icero+ ice point bath (0 °C ±0.010°C) is a convenient means of checking thermometers and referencing thermocouples.