



# Therma 20 & 22

thermometers & probes



# Therma 20 Thermometer

for high accuracy readings

- ✓ assured accuracy for the life of the thermometer
- ✓ meets the European Standard EN13485
- ✓ FREE traceable certificate of calibration

The Therma 20 thermistor thermometer has been specifically designed for use in the catering industry with HACCP and health and safety procedures in mind.

The instrument displays temperature to 0.1 °C over the range of -39.9 to 149.9 °C with a high system accuracy of ±0.4 °C (-10 to 70 °C). This accuracy is guaranteed for life, due to the instruments advanced electronics. The Therma 20 features an easy to read, LCD display with low battery indication. The thermometer can be used in low ambient working temperatures down to -20 °C, which meets the requirements of the European Standard EN13485 for the temperature monitoring of quick frozen foods.

The instrument is housed in an ergonomic, robust ABS case that includes 'Biomaster' additive which reduces bacterial growth. The thermometer's auto-power off facility turns the instrument off automatically after ten minutes. The Therma 20 incorporates an easy to use Lumberg screw-locking type connector, allowing a wide range of interchangeable probes to be used. ETI offers an extensive range of interchangeable thermistor probes.

## optional accessories

- 830-251 protective silicone boot, see opposite - the Therma 20 is waterproof to IP64 when used in conjunction with this protective boot
- 832-050 wall bracket (screws not supplied) and protective boot
- Thermistor calibration test caps with UKAS certification are available for checking the accuracy of the Therma 20 and 22 thermometers



order code	description
226-040	Therma 20
286-001	thermistor test cap -18 °C
286-002	thermistor test cap 0 °C
286-003	thermistor test cap 3 °C
286-004	thermistor test cap 70 °C
286-005	thermistor test cap 100 °C
830-251	protective silicone boot
832-050	wall bracket & protective boot

*the Therma 20 is exclusive of probe*

specification	Therma 20
range	-39.9 to 149.9 °C
resolution	0.1 °C
accuracy	±0.4 °C (-10 to 70 °C)
battery	3 x 1.5 volt AAA
battery life	minimum 5 years (20000 hours)
sensor type	thermistor
display	12 mm LCD
dimensions	25 x 56 x 128 mm
weight	130 grams

*FREE traceable certificate of calibration included*

# Therma 22 Thermometer

utilises thermistor or type T thermocouple probes

- ✓ range -199.9 to 400 °C
- ✓ fast response with high accuracy
- ✓ wide range of interchangeable probes
- ✓ auto-power off facility maximises battery life

The Therma 22 hand held thermistor and thermocouple thermometer has been specifically designed for those who need the versatility of both the thermocouple and thermistor probes in one compact unit.

The thermistor sensor gives greater accuracy for food processing, whilst the type T thermocouple sensor extends the measurement range and provides faster response. Plug the probe of your choice into the Therma 22 and the thermometer will take fast, accurate measurements.

The Therma 22 features an easy to read, LCD display with open circuit and low battery indication. The instrument displays temperature over the range of -39.9 to 149.9 °C (thermistor) or over the range of -199.9 to 400 °C (type T thermocouple).

The unit is housed in a robust ABS case that includes 'Biomaster' additive which reduces bacterial growth. The auto-power off facility maximises battery life, turning the instrument off automatically after ten minutes.

The Therma 22 incorporates a Lumberg screw-locking type connector, allowing a wide range of interchangeable probes to be used. ETI offers an extensive range of interchangeable type T thermocouple probes and thermistor probes.



## optional accessories

- 830-251 protective silicone boot, see left - the Therma 22 is waterproof to IP64 when used in conjunction with this boot
- 832-050 wall bracket supplied with a protective boot (screws not supplied)
- Thermistor test caps with UKAS Certification, see opposite

## Biomaster

**What is Biomaster?** - Biomaster additives are powerful broad-spectrum inorganic, silver-based biocides for use in plastics, helping to reduce hygiene risks. The concentration of silver, in the patented anti-microbial active agent in Biomaster, provides a release of silver ions on demand, which in turn safely inhibits microbial growth.

### order code description

227-022	Therma 22
830-251	protective silicone boot
832-050	wall bracket & protective boot <i>the Therma 22 is exclusive of probe</i>

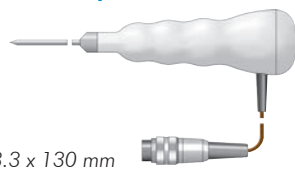
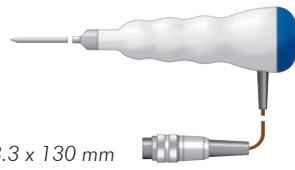
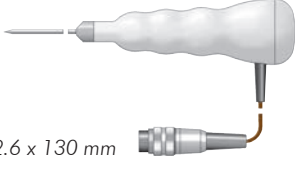
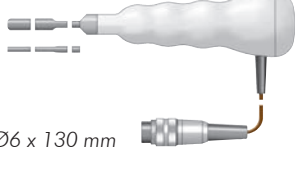
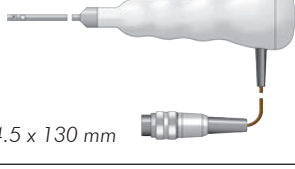




specification	Therma 22
range - type T thermocouple	-199.9 to 400 °C
range - thermistor	-39.9 to 149.9 °C
resolution	0.1 °C to 300 °C thereafter 1 °C
accuracy - type T thermocouple	±0.5 °C (-50 to 150 °C)
accuracy - thermistor	±0.4 °C (-10 to 70 °C)
battery	3 x 1.5 volt AAA
battery life - thermocouple	minimum 10000 hours
battery life - thermistor	minimum 5 years (20000 hours)
sensor type	thermistor/type T thermocouple
display	12 mm LCD
dimensions	25 x 56 x 128 mm
weight	130 grams

*FREE traceable certificate of calibration included*

# Therma 22 Thermometer Probes

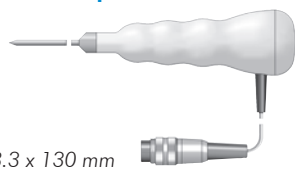
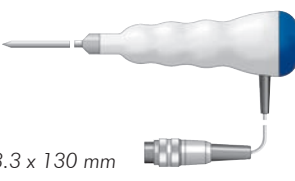
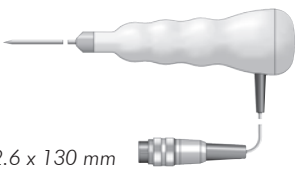
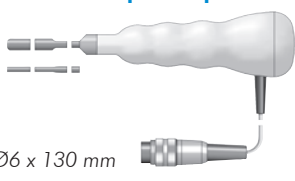
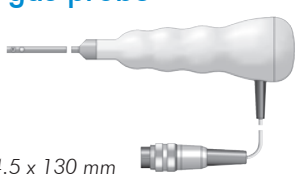


thermocouple type T probes with Lumberg connectors

		order code	
<p><b>penetration probe</b></p>  <p>Ø3.3 x 130 mm</p>	<p>This stainless steel penetration probe is versatile and strong and incorporates a heavy duty, ribbed, polypropylene handle with a white end cap. Ideal for many temperature measurement applications including liquids, semi-solids and granular materials. Response time less than three seconds. Probe temperature range -60 to 250 °C.</p>	177-166	
<p><b>penetration probe</b></p>  <p>Ø3.3 x 130 mm</p>	<p>The above penetration probe is also available with colour-coded end caps. Probe temperature range -60 to 250 °C.</p> <ul style="list-style-type: none"> <li><span style="color: blue;">●</span> blue cap</li> <li><span style="color: brown;">●</span> brown cap</li> <li><span style="color: green;">●</span> green cap</li> <li><span style="color: red;">●</span> red cap</li> <li><span style="color: yellow;">●</span> yellow cap</li> </ul>	<p>177-162 177-163 177-164 177-165 177-167</p>	
<p><b>fast response probe</b></p>  <p>Ø2.6 x 130 mm</p>	<p>This stainless steel, fast response, needle penetration probe incorporates a heavy duty ribbed, polypropylene handle. The probe is suitable for liquids and soft semi-solid materials including fish, fruit and other soft or delicate materials. Response time less than one second. Probe temperature range -60 to 250 °C.</p>	177-100	
<p><b>rigid between pack probe</b></p>  <p>Ø6 x 130 mm</p>	<p>This rigid, stainless steel, between pack probe is strong and versatile. The probe incorporates a heavy duty ribbed, polypropylene handle. The probe has been specifically designed to measure temperature between packs or boxes of produce. Response time less than three seconds. Probe temperature range -60 to 250 °C.</p>	177-060	
<p><b>air or gas probe</b></p>  <p>Ø4.5 x 130 mm</p>	<p>This stainless steel, fast response, hand held air or gas probe incorporates a heavy duty ribbed, polypropylene handle. The probe is ideal for measuring air temperatures in refrigeration units, storage areas and other similar applications. Response time less than two seconds. Maximum probe temperature 250 °C.</p>	177-300	
<p><b>air or gas wire probe</b></p>  <p>Ø2.4 x 1000 mm PTFE lead</p>	<p>This fast response, air or gas wire probe is ideal for measuring air temperatures in fridges, freezers, chill cabinets and similar. The probe is supplied complete with a one metre PTFE lead. Response time less than 0.5 seconds. Probe temperature range -60 to 250 °C.</p>	177-372	
<p><b>foil between pack probe</b></p>  <p>40 x 50 mm with 1000 mm PTFE lead</p>	<p>This easy to use, fast response, foil between pack probe is flexible and has been designed to measure temperature between packs or boxes of produce in a variety of applications. The probe is supplied with a one metre PTFE lead. Response time less than two seconds. Maximum probe temperature 250 °C.</p>	177-090	



# Therma 20/22 Thermometer Probes

NTC thermistor probes with lumberg connectors

		order code
<p><b>penetration probe</b></p>  <p>Ø3.3 x 130 mm</p>	<p>This stainless steel penetration probe is versatile and strong and incorporates a heavy duty, ribbed, polypropylene handle with a white end cap. Ideal for many temperature measurement applications including liquids, semi-solids and granular materials. Response time less than two seconds. Probe temperature range -40 to 150 °C.</p>	174-166
<p><b>penetration probe</b></p>  <p>Ø3.3 x 130 mm</p>	<p>The above penetration probe is also available with colour-coded end caps. Probe temperature range -40 to 150 °C.</p> <ul style="list-style-type: none"> <li><span style="color: blue;">●</span> blue cap</li> <li><span style="color: brown;">●</span> brown cap</li> <li><span style="color: green;">●</span> green cap</li> <li><span style="color: red;">●</span> red cap</li> <li><span style="color: yellow;">●</span> yellow cap</li> </ul>	<p>174-162 174-163 174-164 174-165 174-167</p>
<p><b>fast response probe</b></p>  <p>Ø2.6 x 130 mm</p>	<p>This stainless steel, fast response, needle penetration probe incorporates a heavy duty ribbed, polypropylene handle. The probe is suitable for liquids and soft semi-solid materials including fish, fruit and other soft or delicate materials. Response time less than one second. Probe temperature range -40 to 150 °C.</p>	174-100
<p><b>rigid between pack probe</b></p>  <p>Ø6 x 130 mm</p>	<p>This rigid, stainless steel, between pack probe is strong and versatile. The probe incorporates a heavy duty ribbed, polypropylene handle. The probe has been specifically designed to measure temperature between packs or boxes of produce. Response time less than three seconds. Probe temperature range -40 to 150 °C.</p>	174-060
<p><b>air or gas probe</b></p>  <p>Ø4.5 x 130 mm</p>	<p>This stainless steel, fast response, hand held air or gas probe incorporates a heavy duty ribbed, polypropylene handle. The probe is ideal for measuring air temperatures in refrigeration units, storage areas and other similar applications. Response time less than two seconds. Probe temperature range -40 to 150 °C.</p>	174-300
<p><b>air or gas wire probe</b></p>  <p>Ø3.7 x 30 mm with 1000 mm FEP lead</p>	<p>This fast response, air or gas wire probe is ideal for measuring the air temperatures in fridges, freezers, chill cabinets and similar. The air or gas probe is supplied with a one metre FEP lead. Response time less than one second. Probe temperature range -40 to 150 °C.</p>	170-372
<p><b>foil between pack probe</b></p>  <p>40 x 50 mm with 1000 mm FEP lead</p>	<p>This easy to use, flexible, fast response foil between pack probe has been designed to measure temperature between packs or boxes of produce in a variety of applications. Supplied with a one metre FEP lead. Response time less than three seconds. Maximum probe temperature 100 °C.</p>	170-090





In 2012 ETI proudly received the Queens Award for Enterprise for International Trade together with winning 'Overall Business of the Year' at the Southern Business Awards



distributed by:



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