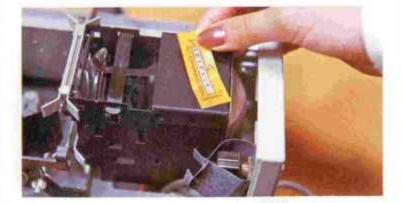
THERMOGRAPHICS MEASUREMENTS LIMITED

Manufacturers of THENTIAN RANGE OF PRODUCTS

Registered Office: Honiton, Devon







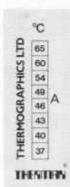


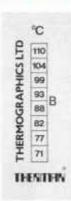


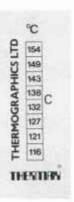
Thermometer Strips

Actual size













Accuracy + or - 1%

Available in 5 standard ranges 'A', 'B', 'C', 'D', & 'E' or any combination of temperatures within this range upon request. Each label measures 50 x 20mm. Each pack contains 10 strips.

All ranges are available in reel form.

Change from silver grey to black upon exposure to temperature Encapsulated - Impervious to oil, water and steam Ideal method for Plotting temperature Simple to read Self adhesive.

water

THE Record Indicators

Individual temperatures available from 37°C to 260°C in the increments quoted for Thermax Thermometer Strips

Encapsulated

 Impervious to oil, water and steam

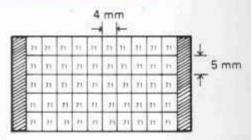


- Low cost
- Size 13mm x 13mm
- Each packet contains 100 indicators

Accuracy + or - 1%

- Self adhesive
- Simple to use no skilled operator required
- Simple to read change from white to black on exposure to temperature
- Fast response time not greater than 1 second
- Ratings printed on individual indicators are discernible before and after exposure to temperature

Non-encapsulated



- Small size 4mm x 5mm
- Low cost
- Each packet contains 120 indicators

THE Clock Indicators



No 1 Range 40-54°C



No 2 Range 60-82°C



No 3 Range 88-110°C



No 4 Range 116-138°C



No 5 Range 143-166°C

Eight Standard Ranges -Five temperatures per range.



No 6 Range 171-193°C



No 7 Range 199-224°C



No 8 Range 232-260°C

- Only 14 mm in diameter
- Any combination of temperatures selected from standard range
- Ideal method for monitoring temperatures of electronic components.
- Self adhesive Changes from silver/grey to jet black in clock rotation upon exposure to temperature.
- Simple to read Supplied in packs of ten
- Range of 41 temperatures: available between 37°C and 260°C.

Clearline Temperature Indicating Paints

Features

- Easy to use. Spray or brush application. Apply to a grease free surface and leave for twenty minutestual Museum before use.
- Superior performance in normal and hostile environment <a> The colour changes of these paints are not reversible Ideal for producing a rapid and comprehensive Thermal Survey of surface temperature.
- Strong clear colour contrast Resistant to oil, steam, water, gas and weather All one pack paints. No Additives required.

The application for temperature indicating paints are many and varied. They are particularly useful as a monitoring agent, when it is important to spot sudden rises in temperature. For example, a typical application concerns pipe lines and plant carrying hot material. The safe operating temperature is known and the vessel is coated with a paint that changes colour if this point is exceeded. A constant 'watch dog' giving a visual warning of any dangerous hot spots - photograph inset back page (bottom right). They are equally effective for checking correct curing temperatures after any heat treated component has cooled and reached inspection as the colour changes can be noted at temperature or when cooled.

Single Change Paints

A comprehensive range of 10 change points ranging from 60°C to 610°C. For details see overleaf.
Uses: General Industry

New Product

All paints are available as Thermal sprays

full colour changes and details see overleaf.

Multichange Paints

GT1 Uses: Gas turbine work and hostile gases.

C2 Uses: General purpose

C3A Uses: Combustion work and general purpose

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THERMOGRAPHICS Portable Digital Meter Instant Action Thermometers

Model 9500

Using (NiCr-NiAl) thermocouple ±0°C to +1200°C



Accuracy
The accuracy is ±0.5% of the indicated value ±1 digit. This is e.g. max. ±2°C at +200°C or ±3°C at +400°C

Model 1500

Using precision thermistor probes -40°C to +140°C



High accuracy
The maximum tolerance of meter
and probe as one unit between
-25°C and +25°C is ±0.5°C, at a
temperature of +100°C only +1.1°C

Model 5500

Using (FE)/Constant thermocouples -40°C to -700°C



Accuracy -40°C to 199°C ±0.5°C +200°C to 700°C ±0.5°C + 1 digit

Extremely fast New thermocouples with a rapid response. Final reading $(t_{99} = time until final reading 99\% of temperature increase) in liquids 0.5 secs., on surfaces approx. 4 sec.$

A complete range of hand held portable instruments with interchangeable probes are available on a 14 day FREE TRIAL

For further information on all products please apply to:-

H.A.WAINWRIGHT & CO.LTD.

9A FARNCOMBE STREET, FARNCOMBE, GODALMING, SURREY, GU7 3BA, ENGLAND. Telephone Godalming 28545 (STD Code 048 68)

UK Telex No. 859364

 Specialist instruments and probes for Food Engineering, measurements of revolving and oxidized surfaces also available.

60°C PINK to BLUE 120°C PINK to BLUE 165°C MAUVE PINK to BLUE 200°C **BLUE to GREEN** YELLOW to RED 235°C 250°C BLUE to FAWN MAUVE/RED to GREY 350°C MAUVE to WHITE 370°C GREEN to WHITE 430°C 560°C ORANGE to YELLOW RED to WHITE 610°C

Multi-Change C2



PURPLE to PINK PINK to FAWN FAWN to BLUE

Multi-Change C3A



RED to DUSTY GREY
DUSTY GREY to YELLOW
YELLOW to ORANGE
ORANGE to GREEN
GREEN to BROWN
BROWN to GREEN GREY
GREEN GREY to DARK GREY
DARK GREY to BLACK

Gas Turbine No.1



PURPLE to PALE BLUE-Below.
PALE BLUE to DARK GREY
DARK GREY to LIGHT GREY
LIGHT GREY to PURPLE
PURPLE to BLACK
BLACK to MATT GLAZE
MATT GLAZE to FULL GLAZE

Response time of the above range of paints -Approximately 10 seconds.

Insulated Vessel Application

Vessel carrying liquid chemical at 1400°C skin temperature is controlled at approximately 200°C. Any breakdown in the Vessel lining will cause the paint to change colour due to temperature increase.

Clearline Temperature Indicating Paints

Used throughout industry, Thermal PULTIMHEAT provide an ideal method of check MIRTUAL MUSEUM measuring temperatures achieved during processing and curing. They may be used as a protective measure when used on vessels carrying high temperature gases and liquids. The smallest type of breakdown in the refractory lining will raise the temperature of the outside casing and the Thermal Paint will change colour, giving an early visual warning of imminent refractory breakdowns. The multi-change paints are an especially invaluable aid in the development of jet engines saving endless hours of Rig Running Components to destruction.

Research Kit

A box containing sample quantities of all Thermographics measurement temperature sensitive paints, strips and indicators.



Test samples of multi-change paints.



Insulated vessel application

