

elcometer®

inspection equipment



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DFT

Fineness of
Grind, Density
Flow & Dip Cups
Rotational Viscosity
Flash Point, Impact Testers
Washability & Abrasion Testers
Film Applicators, Bend Testers, Gloss
Thickness Gauges, Surface Profile, Wet Film
Dry Film, Coating Thickness Gauges
Climatic Testing, Adhesion, Pinhole Testers,
Porosity, Software, Dispersion, Inspection Kits,
Zahn Cups, Motorised Film Applicators,
Drying Time Recorders, Washability, Abrasion
Scratch & Hardness, Elasticity & Deformation,
Surface Cleanliness, DOI Gloss Meters,
Colour, Moisture, Dewpoint Meters,
Cross-Hatch, Oven Recorders,
Surface Contamination
ElcoMaster™



Elcometer 308 & 309

Digital Hygrometers

www.elcometer.com

Elcometer 308 & 309

Digital Hygrometers



The **Elcometer 308 Hygrometer** has been specifically designed for use in very hot climates where the surface temperature of the substrate can exceed the paint manufacturer's recommended limits for successful painting.

Painting outside recommended limits can have a detrimental affect on the performance and lifetime of the coating. The Elcometer 308 Hygrometer provides a simple and fast measurement of relative humidity and surface temperature.



Elcometer 308



Elcometer 309

The **Elcometer 309 Delta T Hygrometer** provides a simple and fast measurement of the two critical climate parameters within coatings:

- **Delta T (T Δ):** The difference between the surface temperature (Ts) and the dewpoint temperature (Td). When T Δ is less than 3°C (5°F) painting should not occur.
- **Relative Humidity (RH):** This is the amount of water vapour taken up by air. Expressed as a percentage, RH is dependent on the air temperature.

STANDARDS:

BS 7079-B4 (Elcometer 309),
ISO 8502-4 (Elcometer 309)

Technical Specification

C

Model	Elcometer 308 Hygrometer	Elcometer 309 Delta T Hygrometer
Part Number	G308----1	G309----1
	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid gray; border-radius: 5px; padding: 5px; width: 30px; text-align: center;">T_s</div> <div style="border: 1px solid gray; border-radius: 5px; padding: 5px; width: 30px; text-align: center;">RH</div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid gray; border-radius: 5px; padding: 5px; width: 30px; text-align: center;">TΔ</div> <div style="border: 1px solid gray; border-radius: 5px; padding: 5px; width: 30px; text-align: center;">RH</div> </div>
Operating Range	-20°C to +80°C (-4 °F to +176°F)	-20°C to +80°C (-4 °F to +176°F)
Air Temperature (T Δ)		-20°C to +80°C (-4 °F to +176°F)
Surface Temperature (TS)	-20°C to +80°C (-4 °F to +176°F)	-20°C to +80°C (-4 °F to +176°F)
Relative Humidity (RH) & Accuracy	0% to 100% RH (\pm 3%)	0% to 100% RH (\pm 3%) (Default upper limit 75%, user adjustable)
Resolution	0.1°C (0.1°F) / 0.1%	0.1°C (0.1°F) / 0.1%
Power Supply	2 x AA 1.5V Batteries or via USB Cable	2 x AA 1.5V Batteries or via USB Cable
Battery Life	Greater than 40 hours (Backlight off)	Greater than 40 hours (Backlight off)
Certificate	●	●
Dimensions & Weight	180 x 75 x 35mm (7 x 3 x 1.4") 300g (10.6oz)	180 x 75 x 35mm (7 x 3 x 1.4") 300g (10.6oz)
Packing List	Elcometer 308 Hygrometer, wrist strap, 2 x AA batteries, protective carry case/pouch with belt clip, RH & surface probe calibration certificate and operating instructions.	Elcometer 309 Delta T Hygrometer, wrist strap, 2 x AA batteries, protective carry case/pouch with belt clip, RH probe calibration certificate and operating instructions.

Accessories

T99923480 Protective Carry Case/Pouch

T99921325 USB Cable

T99916063 Wrist Strap

TCAL-308F Optional Full Calibration Certificate; Elcometer 308

TCAL-309F Optional Full Calibration Certificate; Elcometer 309

● Basic Calibration Certificate supplied as standard.

Related Products



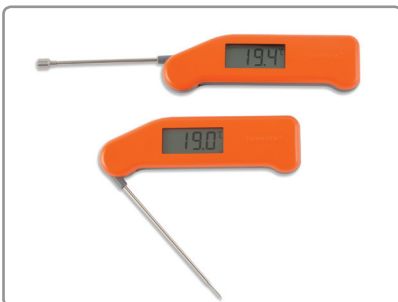
Elcometer 319 Dewpoint Meter

This rugged dew point meter is designed to measure and record all relevant climatic parameters required to determine whether the conditions are suitable for painting. The Elcometer 319 dewpoint meter can be used as a hand-held gauge or a stand alone data logger - ideal for monitoring climatic conditions over a period of time.



Elcometer 320 Climate Monitoring System

Using readily available, off the shelf components the Elcometer 320 - together with ElcoMonitor™ Software and the Elcometer 319 Dewpoint Meter - is a powerful system which simply and accurately monitors climatic parameters in any number of locations.



Elcometer 212 Digital Pocket Thermometer

The Elcometer 212 is a digital, pocket size thermometer ideal for day to day use.

Incorporating a fast response stainless steel liquid or surface probe, the Elcometer 212 provides temperature readings in under four seconds.



Elcometer 214L IR Digital Laser Thermometer

The Elcometer 214 is a simple, easy to use, non contact thermometer which safely and accurately measures surface temperature of non-reflective materials using infrared technology.



Elcometer 116 Whirling & Sling Hygrometers

These instruments are designed to determine the dewpoint and relative humidity at any given time.