

# Elcometer 319 Dewpoint Meter- Dewmeter



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**At a glance**

- *Precise accurate measurement.*
- *Can be linked to EDTS+ software to download reading.*

**Elcometer 319 Dewpoint Meter- Dewmeter**

The Elcometer 319 has been designed to incorporate all the needs required for climate condition monitoring, in a single gauge.

- Air Temperature
- Relative Humidity
- Surface Temperature
- Dewpoint Temperature
- $\Delta T$ - The difference between dewpoint and surface temperature

Accessories available for the Elcometer 319 include:

- Interface Cable and EDTS+ Excel Link Software to download your stored measurements for further PC analysis
- Infrared Printer for direct print-out of each dataset
- Liquid Temperature Probe for measuring liquids up to 300°C/572°F

**Climatic Condition Testing**

During the application of a coating, the presence of moisture in the environment, or on the work surface, often results in a poor quality finish. Problems such as poor adhesion of the coating or premature corrosion of the substrate can occur.

To determine the likelihood of moisture affecting the quality of the finish, it is essential that the surface temperature, air temperature, relative humidity (RH) and dewpoint are all measured.

<b>Can be used in accordance with:</b>	
BS 7079-B4	ISO 8502-4
NACE RP propo 97	

Alarm	Indicating when the climatic conditions are 'unsafe' to paint
Memory	Each Elcometer 319 can store features up to 99 datasets* in the internal memory
Date and Time	Each dataset is stored with date and time stamps. Date and time can also be displayed on the screen
IR Output	Direct infrared output to IR Printer
Cable Data Output	All gauges are supplied with data output via a cable for linking directly to a PC (Note: Interface Cable and Software supplied separately, Part number T31916504)
Backlight	To Measure in low light and darkened areas, switch on the backlight
Dataset Reading Review	See all the readings stored in the memory on the screen
Enhanced Resolution	Two scale ranges, which automatically change dependant upon the readings, provides greater reading resolution and accuracy below 60°C (140°F)
Improved Durability	A specially designed resilient case provides greater protection
Increased Accuracy and Stability	Made by Rotronic® of Switzerland, the humidity sensor is now perhaps the most stable and accurate available
Fast Surface Probe	Users can take more readings in less time with the rapid contact sensor

\*A dataset is one set of each of the readings i.e. air temperature, surface temperature, relative humidity, dewpoint and  $\Delta T$ .

	<b>Metric</b>	<b>Imperial</b>
Air Temperature Range	-20 to 75°C	-4 to 167°F
Air Temperature Accuracy	±0.3°C	±0.6°F
Resolution	0.1°C	0.1°F
Surface Temperature Range	-15 to 115°C	5 to 239°F
Surface Temperature Range 1	-30 to 60°C	-22 to 140°F
Surface Temperature Range 1 Accuracy	±0.5°C	±1.1°F
Surface Temperature Range 1 Resolution	0.1°C	0.1°F
Surface Temperature Range 2*	60 to 300°C	140 to 572°F
Surface Temperature Range 2 Accuracy	±1.5°C	±3.0°F
Surface Temperature Range 2 Resolution	1°C	1°F
Relative Humidity Range	0 to 100% RH	0 to 100% RH
Relative Humidity Accuracy	±3% RH	±3% RH
Relative Humidity Resolution	0.1% RH	0.1% RH
Weight	260g	0.57lb
Battery Type	3 x AA MN1500 LR6 Batteries	
Battery Life	500 hours (without use of the backlight)	
* The Elcometer 319 automatically switches between ranges for increased resolution at lower temperatures		

<b>Model</b>	<b>Description</b>	<b>Part Number</b>
Elcometer 319	Elcometer 319 Dewmeter	G319----1
<b>Accessories</b>	Liquid Temperature Probe	T31916465
	Surface Temperature Probe	T31916466
	EDTS <sup>+</sup> Excel Link <sup>®</sup> Software and Interface Cable	T31916504
	IR Printer	X99913877

## Related products



Elcometer 116

A guide for Relative Humidity (RH) Calculation is supplied with each instrument. The dewpoint can be accurately obtained using Elcometer 114 Dewpoint Calculator. The Elcometer 116C Bacharach Sling Hygrometer is a convenient, self contained instrument with a built in slide rule for the calculation of %RH and dewpoint.



Elcometer 114

This provides accurate values of Relative Dewpoint (RH) and Humidity from the wet and dry bulb temperatures measured by a Whirling or Sling Hygrometer - such as the Elcometer 116 range above.



Elcometer Inspection Kits

Site inspection requires a range of portable testing equipment. In order to make these products easily available and transportable, Elcometer have developed a range of Inspection Kits. All the gauges are conveniently stored in one hard plastic protective carrying case and are supplied with full operating instructions.

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