

# 319 Dewpoint Meter



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### Elcometer 319

### **Dewpoint Meter**

This rugged gauge is designed to measure and record all relevant climatic parameters required to determine whether the conditions are suitable for painting.



Large easy to read measurements in degrees °C or °F



View up to 5 user selectable statistics on screen



Review individual readings

A hand-held Dewpoint meter with both manual and automatic data logging in one gauge

Integrated magnets allow the gauge to be attached to the substrate during remote logging

Stores 25,000 records in up to 999 batches

Dustproof and waterproof gauge with fully sealed sensors (equivalent to IP66)

Gauges can be recertified at Elcometer Authorised Service Centres



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# **Dewpoint Meter**

### **Elcometer 319**

Technical Spe	cification			C
Model		Model S	Model T	
Part Number		G319S	G319T	
Reading Parameters - RH, Ta, TS, Td, T $\Delta$ , Tdb, Twb $^1$ , SH $^1$				
Statistics - number of readings, standard deviation, mean, coefficient of variation, minimum, maximum				
Dustproof & Waterproof Gauge with Fully Sealed Sensors - equivalent to IP66				
Integral Magnets - secure the gauge during logging				
High/Low Limits - audible, visual, red/green LED alarms can be set against any or all parameters				
Multilingual Menus		-		
Backlight - user selectable		-		
K-Type Connector for External Measurement		-		
Memory - with reading and statistic review		Last 10 records	25,000 recor	ds in 999 batches
Manual Logging		-		
Interval Logging <sup>2</sup>			Adjustable betwee	n 1 second and 1 hour
Data Output				
USB				
Bluetooth® to computer, Android™ & iOS* devices				
ElcoMaster® software & USB cable				
Certificate		•		•
		Temperature Range	Accuracy	Resolution
Gauge <sup>!</sup>		-20 to +80°C (-4 to +176°F)	±0.5°C (±1°F)	0.1°C (0.1°F)
Air Temperature (Ta)		-20 to +80°C (-4 to +176°F)	±0.5°C (±1°F)	0.1°C (0.1°F)
Surface Temperature (TS)		-20 to +80°C (-4 to +176°F)	±0.5°C (±1°F)	0.1°C (0.1°F)
External K-Type Thermocouple (Te)		-40 to +200°C (-40 to+392°F)	±0.5°C (±1°F)*	0.1°C (0.1°F)
Relative Humidity (RH)		0 to 100%RH	±3%RH³	0.1%
Gauge & LCD Operating Range		-20°C to +80°C (-4°F to +176°	F)	
Power Supply		2 x AA batteries or via USB Cable		
Battery Life			r than 40 hours (Backlight Off) o 400 hours (1 reading every 10 minutes)	
Dimensions	180 x 75 x 35mm (7 x 3 x 1.4")	Weight	300g (0.66lb)	
Packing List		Elcometer 319 Dewpoint Meter, 2 x AA batteries, wrist strap, carry case, calibration certificate, USB cable $^+$ , ElcoMaster $^{\otimes +}$ and operating instructions		
Accessories				
T31920162	Magnetic Surface Temperature Probe; -40 to +80°C (-40 to +176°F)			
T9996390-	Liquid Temperature Probe; -200 to +1100°C (-328 to +2012°F)			
T99921325	USB Cable			
T99916063	Wrist Strap			
T99923480	Protective Carry Case/Pouch			

\*Visit www.elcometer.com/sdk to find out how to integrate Elcometer's MFi certified products to your App.

Do not expose the gauge to temperatures outside the gauge and LCD operating range

\* Accuracy ±2°C (4°F) with K Type probes supplied by Elcometer. Probes supplied by other manufacturers may vary.

Model T only

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<sup>2</sup>With Part Number T31920162

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<sup>1</sup>Calculated Value

3 @ 1m/s



### **Elcometer 319**

## **Dewpoint meter**

What you do with the collected data is just as important as taking the readings

Create instant reports with ElcoMaster®



ElcoMaster® is a fast, easy to use software solution for all your data management and quality assurance needs, preparing professional inspection reports at the click of a button.

Data transferred to ElcoMaster® includes;

- RH, Ta, TS, Td, T∆, Tdb, Twb, SH readings
- Date & time for each reading
- Batch information & statistics

Whether you are in the field or on the factory floor, using the ElcoMaster® Mobile App users can;

- Store live readings directly on to a mobile device and save them into batches
- View graphs in real-time whilst carrying out the inspection
- Add notes to individual batch reading
- Add photographs of the test surface to each individual batch reading at the click of a button
- Plot individual readings on to a location Map photograph or diagram via the mobile device's internal GPS
- Inspection data can be transferred from mobile to PC for further analysis and reporting
- · Generate instant .pdf report for submission

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# **Dewpoint meter**

#### Connect

Connect gauge via Bluetooth® to see live readings directly on the phone and save them into hatches

#### Review

Review average, maximum and minimum readings instantly.

#### Manage & Print

Store all data; gloss, dry film thickness, surface profile, climate and manual reports in easy to manage folders.

#### Photos & Notes

Add photos, notes and comments.

#### **Image Collection**

Use measurement location points on images to indicate the position for the next reading.

#### Combine

Combine different inspection parameters (such as climate, DFT, surface profile, surface cleanliness and adhesion) together with images, notes and other project specific information into reports.

### Collaborate

Share inspection data securely via the Cloud and collaborate on projects using the instant messaging feature in ElcoMaster®.

#### Send

PDF

Email inspection data from a mobile device to a PC for further analysis and reporting or transfer data via the Cloud.

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Email





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Elcometer 319 Model T: Made for iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5s, iPhone 5, iPhone 5, iPhone 4s, iPhone 4s, iPhone 4, iPad Air 2, iPad mini 3, iPad Air, iPad mini 2, iPad (3rd and 4th generation), iPad mini, iPad 2, and iPod touch, iPhone, and 'Made for iPad' mean that an electronic accessory has been designed to connect specifically to iPod touch, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod touch, iPhone, or iPad may affect wireless performance. iPad, iPhone, and iPod touch are trademarks of Apple inc., registered in the U.S. and other countries.

Suitable for mobile devices running Android software version 2.1 and upwards. Android is a trademark of Google Inc.

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