



# Elcometer 319 Dewpoint Meter

## **Climatic Conditions**

### **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.



elcometer -

# **Climatic Conditions**

### **Elcometer 319**



Robust temperature sensors



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- elcometer.com

## Climatic Conditions

### **Elcometer 319**

### **Dewpoint Meter**

Durable

IP66

life

Versatile

Software<sup>†</sup>

the USB cable

Rapid response time

· Safe use in climates ranging between

· Waterproof and dust proof rating equivalent to

· Rugged and ergonomic design, re-engineered

· Data can be downloaded to a PC via USB or

Bluetooth<sup>®</sup> and evaluated using ElcoMaster<sup>™</sup>

Each gauge can be powered by either 2 AA

batteries (for up to 400 hours# use) or directly via

parameter which trigger visual and audible

Intelligent memory calculates total available

· Gauges can be recertified at Elcometer

· Adjustable limits can be set for each measurement

alarms whenever a limit is exceeded

logging time when using batches

Authorised Service Centres

sensors have greater durability for an extended

-20°C (-4°F) and +80°C (+176°F)

# Accurate

- Meets ISO 8502-4
- · Each instrument is supplied with a Calibration Certificate
- · Readings are switchable between Celsius and Fahrenheit
- All readings are time & date stamped

## Simple

- Easy menu-driven user interface in multiple languages
- · Clear, illuminated display showing up to five user-defined parameters
- Arrow indicators show temperature trends

# Flexible

- The gauge can be used as either a hand-held Dewpoint meter or as a remote data logging monitor<sup>†</sup>
- Integrated K-Type connector allows measurement of surface temperature during remote logging using a remote probe
- Using an external probe the "Te" mode transforms the gauge into a thermometer - ideal for measuring temperature of a paint prior to application
- Hold/freeze function allows manual readings to be reviewed before being added into the memory



Te - Ideal for use as a simple thermometer



#### Waterproof and rugged to IP66



\*Based on 1 reading every 10 minutes in logging mode.

<sup>†</sup> Model T only.

Remote monitoring of climatic parameters

### **Dewpoint Meter**

Model	
Part Number	
Reading Parameters - RH, Ta, Ts, Td, T∆, Tdb, Twb <sup>1</sup> , SH <sup>1</sup>	
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	
Manual Logging	
Interval Logging <sup>2</sup>	
Data Output	
USB	
Bluetooth <sup>®</sup> to computer, Android <sup>™</sup> & iOS <sup>‡</sup> devices	
ElcoMaster™ software & USB cable	
Certificate	
	Te
Gauge <sup>!</sup>	-20
Air Temperature (Ta)	-20
Surface Temperature (Ts)	-20
External K-Type Thermocouple (Te)	-4(
Relative Humidity (RH)	0 t
Gauge & LCD Operating Range	-20
Power Supply	2)
Battery Life	Ma Int
Dimensions 180 x 75 x 35mm (7 x 3 x 1.4")	We
Packing List	Eld
	ca
	ins

T31920162	Magnetic Surface Temperature Probe; -4
T9996390-	Liquid Temperature Probe; -200 to +1100
T99921325	USB Cable
T99916063	Wrist Strap
T99923480	Protective Carry Case/Pouch
Certificate supplied as	standard

<sup>1</sup>Calculated Value <sup>2</sup>With Part Number T31920162

<sup>4</sup> Visit www.elcometer.com/sdk to find out how to integrate Elcometer's MFi certified products to your App.

<sup>!</sup> 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 <sup>+</sup> Model T only

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# Climatic Conditions

### Elcometer 319

		С
Model S	Model T	
G319S	G319T	
		•
		•
Last 10 records	25,000 recor	ds in 999 batches
	Adjustable betwee	n 1 second and 1 hour
		•
		•
•		•
emperature Range	Accuracy	Resolution
20 to +80°C (-4 to +176°F)	±0.5°C (±1°F)	0.1°C (0.1°F)
20 to +80°C (-4 to +176°F)	±0.5°C (±1°F)	0.1°C (0.1°F)
20 to +80°C (-4 to +176°F)	±0.5°C (±1°F)	0.1°C (0.1°F)
40 to +200°C (-40 to+392°F)	±0.5°C (±1°F)*	0.1°C (0.1°F)
to 100%RH	±3%RH	0.1%
20°C to +80°C (-4°F to +176°	F)	
x AA batteries or via USB Ca		
Ianual Mode: Greater than 40 Interval Logging: up to 400 ho		
Veight	300g (0.66lb)	
Icometer 319 Dewpoint Mete ase, calibration certificate, US Instructions		
40 to +80°C (-40 to +176°F)		
0°C (-328 to +2012°F)		

# **Climatic Conditions**

### Elcometer 319 Dewpoint meter

**Dewpoint meter** 

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Create instant reports with ElcoMaster™

USB

🚯 Bluetooth

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

ElcoMaster<sup>™</sup> 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<sup>™</sup> includes;

21.9

- RH, Ta, Ts, Td, TΔ, 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;

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- 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

Google play

PDF

Fmail

Stropbox 💦 Google Drive

# **Climatic Conditions**

#### Connect

Connect gauge via Bluetooth<sup>®</sup> to see live readings directly on the phone and save them into batches.

#### 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

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

### Elcometer 319











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TEXAS

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Elcometer 319 Model T: Made for iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, iPhone 4s, iPad Air 2, iPad Air 2, iPad Air 3, iPad Air, iPad (3rd and 4th generation), iPad mini, iPad 2, and iPod touch (4th and 5th generation). Made for iPod, "Made for 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, and its accessory with IPod touch, iPhone, and its accessory with IPod touch, iPhone is the operation of the is device or its compliance with safety and regulatory standards. Please note that the use of this accessory with IPod touch, iPhone, and its accessory with IPod touch, iPhone, and its accessory with IPod touch, iPone, and its accessory accessory accessory with IPod touch, iPone, and its accessory with IPod touch, iPone, and its accessory access

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Due to our policy of continuous improvement, Elcometer Limited reserves the right to change specifications without notice. All gauges come with a 1 year warranty as standard, the Elcometer 319 is extendable within 60 days from date of purchase, free of charge, to 2 years via www.elcometer.com



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