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 319 Model T: Made for iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, 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 (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, or iPad may affect wireless performance.



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Measure and record climatic parameters:

- Relative humidity
- Air temperature
- Surface temperature
- Dewpoint temperature
- TΔ (the difference between surface temperature and dewpoint)
- Dry Bulb temperature
- Wet Bulb temperature
- External temperature correction (K-type)
- Specific Humidity



Flexible

The Elcometer 319 can be used as either a hand-held dewpoint meter or as a remote data logging monitor.^{\dagger}

Designed to last

Robust, durable & weather resistant, the Elcometer 319 is available with a 2 year* manufacturer's warranty; giving you piece of mind.

Data output to PC, Android™ or iOS mobile device

Connect the Elcometer 319 via Bluetooth[®] or USB to a PC, Android[™] or iOS mobile device & download the data into an inspection application or into ElcoMaster[®] for instant report generation.



The latest National and International Standards have been identified. Those in Orange are current and those in Grey have been superseded but are still recognised in some industries.

[†] Model T only

* The Elcometer 319 gauges are supplied with a one year warranty against manufacturing defects. The warranty can be extended to two years via www.elcometer.com.



DS 7079-B4, IMO MSC.215(82), IMO MSC.244(83), ISO 8502-4, US Navy NSI 009-32, US Navy PPI 63101-000



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



View up to 5 user selectable statistics on screen



Review individual readings

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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[†]
- 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

Durable

- Safe use in climates ranging between -20°C (-4°F) and +80°C (+176°F)
- Waterproof and dust proof rating equivalent to IP66
- Rugged and ergonomic design, re-engineered sensors have greater durability for an extended life

Versatile

- Rapid response time
- Data can be downloaded to a PC via USB or Bluetooth[®] and evaluated using ElcoMaster[®] Software[†]
- Each gauge can be powered by either 2 AA batteries (for up to 400 hours[#] use) or directly via the USB cable
- Adjustable limits can be set for each measurement parameter which trigger visual and audible alarms whenever a limit is exceeded
- Intelligent memory calculates total available logging time when using batches
- Gauges can be recertified at Elcometer
 Authorised Service Centres

[†]Model T only. #Based on 1 reading every 10 minutes in logging mode.



Te - Ideal for use as a simple thermometer



Waterproof and rugged to IP66



Remote monitoring of climatic parameters

Dewpoint Meter

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Technical Specification				C
Model		Model S	Model T	Certificate
Part Number		G319S	G319T	•
Reading Parameters - RH, Ta, Ts (Te⁰), Td, TΔ, Tdb, Twb¹, SH¹				
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 records in	999 batches
Vanual Logging				
Interval Logging ²			Adjustable betwee	n 1 second and 1 hou
Data Output				
USB				
Bluetooth [®] to computer, Android [™] & iOS ⁴ devices				
ElcoMaster [®] software & USB cable				
		Temperature Range	Accuracy	Resolution
Sauge⁵		-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) ⁷	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) ⁶	0.1°C (0.1°F)
Relative Humidity (RH)		0 to 100%RH	±3%RH ³	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		Manual Mode: Greater than 40 hours (Backlight Off) Interval Logging: up to 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 ^{®†} and operation 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
1 Calculated Value	2 With Part Number T31020162 3 at 1m/c

¹ Calculated Value
 ² With Part Number T31920162
 ³ at 1m/s
 ⁴ Visit www.elcometer.com/sdk to find out how to integrate Elcometer's MFi certified products to your App.

 $^{\scriptscriptstyle 5}$ Do not expose the gauge to temperatures outside the gauge and LCD operating range

⁶ Accuracy ±2°C (4°F) with K Type probes supplied by Elcometer. Gauge tested with voltage input ⁷ Accuracy ±0.75°C below 10°C (±1.35°F below 50°F) [†]Model T only.

• Certificate supplied as standard.

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Create instant reports with ElcoMaster®

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



ElcoMaster[®] is a fas<mark>t, easy to use software solution for all your data management and quality assurance needs, preparing professional inspection reports at the click of a button.</mark>

Data transferred to ElcoMaster[®] includes;

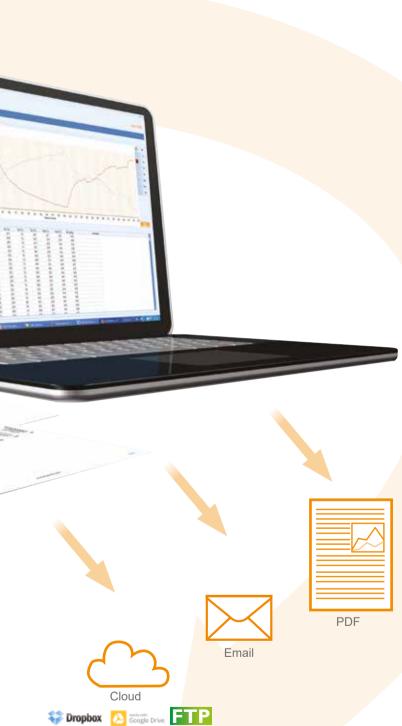
- RH, Ta, Ts, Td, TΔ, Tdb, Twb, SH readings
- Date & time for each reading
- Batch information & statistics

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

- 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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Connect

Connect gauge via Bluetooth[®] 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.













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