

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



Robust temperature sensors

Easy to use, intuitive menu structure

- Measure and record climatic parameters:
- Relative humidity
 - Air temperature
 - Surface temperature
 - Dewpoint temperature
 - TA (the difference between surface temperature and dewpoint)
 - Dry Bulb temperature
 - Wet Bulb temperature
 - External temperature correction (K-type)
 - Specific Humidity

Visual and audible indication of user defined limits for any or all parameters

USB and Bluetooth® data output to ElcoMaster® software



Android™

Made for iPod iPhone iPad

STANDARDS:
BS 7079-64, IMO MSC 215/82, IMO MSC 244/83, ISO 8502-4, US Navy N81 009-33, US Navy PPI 63101-000

TS Ta Td TΔ RH SH Tdb Twb Te

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 Those in Orange are current and those in Grey have been superseded but are still recognised in some industries.

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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



Te - Ideal for use as a simple thermometer



Waterproof and rugged to IP66



Remote monitoring of climatic parameters

[†] Model T only

[‡] Based on 1 reading every 10 minutes in logging mode.

Dewpoint Meter

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Technical Specification	C	
	Model S	Model T
Model	G319—S	G319—T
Part Number		
Reading Parameters - RH, Ta, TS, Td, TΔ, Tdb, Twb, SH [†]	■	■
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
Manual Logging	■	■
Interval Logging [‡]	■	Adjustable between 1 second and 1 hour
Data Output	■	■
USB	■	■
Bluetooth® to computer, Android™ & iOS® devices	■	■
ElcoMaster® software & USB cable	■	■
Certificate	■	■
	Temperature Range	Accuracy
Gauge [§]	-20 to +80°C (-4 to +176°F)	±0.5°C (±1°F)
Air Temperature (Ta)	-20 to +80°C (-4 to +176°F)	±0.5°C (±1°F)
Surface Temperature (TS)	-20 to +80°C (-4 to +176°F)	±0.5°C (±1°F)
External K-Type Thermocouple (Te)	-40 to +200°C (-40 to 392°F)	±0.5°C (±1°F) [¶]
Relative Humidity (RH)	0 to 100%RH	±3%RH [¶]
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
Packing List		300g (0.66lb)
		Elcometer 319 Dewpoint Meter, 2 x AA batteries, wrist strap, carry case, calibration certificate, USB cable, ElcoMaster® and operating instructions

Accessories

T31920162	Magnetic Surface Temperature Probe: -40 to +80°C (-40 to +176°F)
T9090390	Liquid Temperature Probe: -200 to +1100°C (-328 to +2012°F)
T90921325	USB Cable
T90916063	Wrist Strap
T90923480	Protective Carry Case/Pouch

• Certificate supplied as standard. [†]With Part Number T31920162 [‡]@ 1m/s
[§] Calculated Value [¶] Visit www.elcometer.com/uk to find out how to integrate Elcometer's MPF 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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Create instant reports with ElcoMaster®

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



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, TA, 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

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.

