

Climatic Conditions

Elcometer 319

Dewpoint Meter

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

Elcometer 319

Technical Specification			
Model	Model S	Model T	Certificate
Part Number	G319----S	G319----T	●
Reading Parameters - RH, Ta, Ts (Te ⁶), Td, TΔ, 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 records in 999 batches	
Manual Logging	■	■	
Interval Logging ²		Adjustable between 1 second and 1 hour	
Data Output			
USB		■	
Bluetooth [®] to computer, Android™ & iOS ⁴ devices		■	
ElcoMaster [®] software & USB cable		■	
	Temperature Range	Accuracy	Resolution
Gauge ⁵	-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 ¹ , ElcoMaster [®] ¹ 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

¹ Calculated Value² With Part Number T31920162³ at 1m/s⁴ Visit www.elcometer.com/sdk to find out how to integrate Elcometer's MFi certified products to your App.⁵ Do not expose the gauge to temperatures outside the gauge and LCD operating range⁶ Accuracy ±2°C (4°F) with K Type probes supplied by Elcometer. Gauge tested with voltage input⁷ Accuracy ±0.75°C below 10°C (±1.35°F below 50°F) ¹ Model T only.

● Certificate supplied as standard.