

EUROPE'S LARGEST SELECTION OF TEST & MEASUREMENT EQUIPMENT FOR HIRE

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DATA-SHEET



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WHY BUY
WHEN YOU CAN HIRE

elcometer®
inspection equipment



Elcometer 319
Dewpoint Meter

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

compatible with **ElcoMaster**

available with **Bluetooth** wireless technology

Suitable for use in Cloud Computing



Robust temperature sensors

Easy to use, intuitive menu structure

Measure and record climatic parameters:

- Relative humidity
- Air temperature
- Surface temperature
- Dewpoint temperature
- $T\Delta$ (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-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

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



View up to 5 user selectable statistics on screen

Stores 25,000 records in up to 999 batches

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



Review individual readings

Gauges can be recertified at Elcometer Authorised Service Centres



TS Ta Td T Δ 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 Those in Orange are current and those in Grey have been superseded but are still recognised in some industries.

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

Elcometer 319 Dewpoint Meter

Technical Specification

Model	Model S	Model T	
Part Number	G319----S	G319----T	
Reading Parameters - RH, Ta, TS, 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+ devices		■	
ElcoMaster® software & USB cable		■	
Certificate	●	●	
	Temperature Range	Accuracy	Resolution
Gauge ¹	-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%RH	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 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

● Certificate supplied as standard.

¹Calculated Value

²With Part Number T31920162

* 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

Elcometer 319 Dewpoint meter

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, 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

Dewpoint meter

Elcometer 319

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.

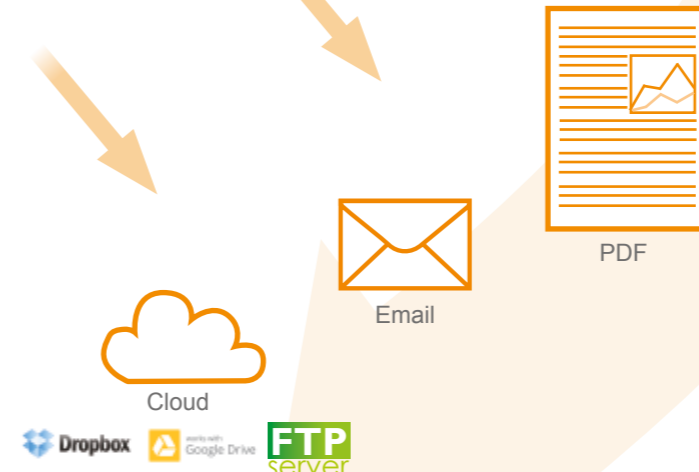
Photos & Notes
Add photos, notes and comments.

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

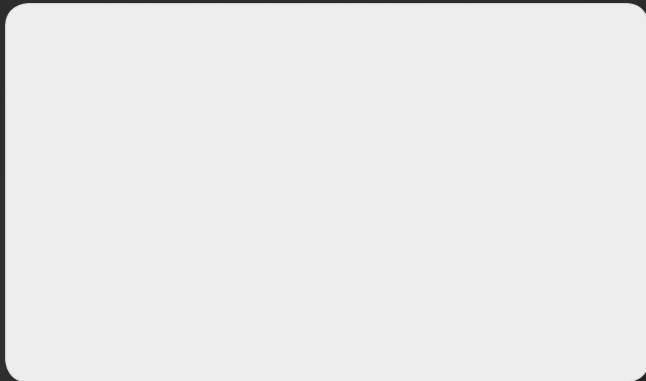
Combine
Combine different inspection parameters (such as climate, DFT, surface profile, surface cleanliness and adhesion) together with images, notes and other project specific information into reports.

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.



PC **ANDROID APP ON Google play** **Download on the App Store** compatible with **ElcoMaster**



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Elcometer 319 Model T: Made for iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, 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 (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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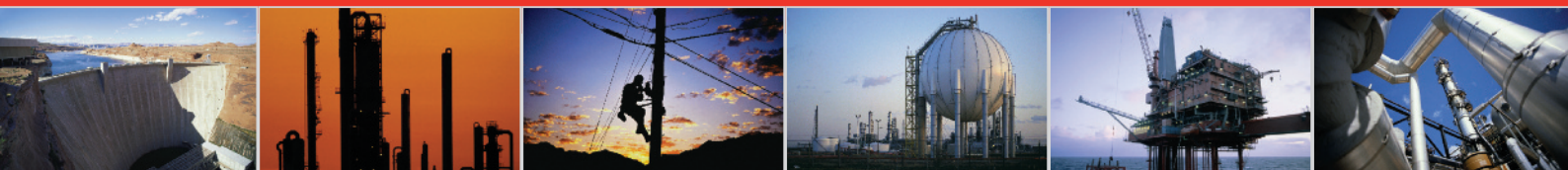
Suitable for mobile devices running Android software version 2.1 and upwards. Android is a trademark of Google Inc.

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OUR COMMITMENT TO YOU

A wealth of knowledge and experience.

You can take advantage of expert advice to ensure you get the best, most appropriate and cost effective equipment for the job. We supply a wide variety of industries, so if there is another way to do the job or save you time and money we'll pass on the benefit of our experience for free.

Honest advice, just a phone call away.

If we don't have a particular item, rather than hiring you something that won't do the job, we would rather direct you to an alternative supplier. You will always be provided with full instructions and if you still need help, call our technical team on Nationwide Low Call 0333 6000 600. Our aim is to save you time, frustration and money.

Top quality equipment from major manufacturers.

With Inlec you'll get the most accurate, reliable and well-maintained equipment available. Prices are regularly reviewed to ensure you always enjoy the best value for money. We have made a significant investment in test equipment so we ensure that it's well packed to minimise damage and delay.

We really do listen to you.

You won't waste your time contacting Inlec. Every request for equipment is logged and carefully considered. Listening to our customers helps keep our product range up to date and relevant. If you are unhappy about any aspect of our service please let us know so we can put it right.

YOUR 5 WAY GUARANTEE

1 GUARANTEE SAME DAY DESPATCH

We understand why prompt delivery is important to you. So, if we confirm your order before 3pm, you are guaranteed same day despatch.

2 OUR PRICE GUARANTEE

Inlec guarantee you real value for money. Our price match policy is simple - if you can hire the same product for less elsewhere, we guarantee to match that price and reduce it by a further 10% of the difference - and still deliver our industry leading technical and customer support.

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3 TOP QUALITY GUARANTEED

All equipment is thoroughly checked prior to dispatch to ensure you receive it in full, safe working order. Your shipment will be securely packed and include manufacturer's instructions, accessories or consumables and a valid calibration certificate where appropriate. In addition, Inlec offer a 24 hour replacement service if you decide the equipment is not suitable for your application*.

4 FRIENDLY, KNOWLEDGEABLE ADVICE GUARANTEED

Inlec are happy to provide you with free advice, from an unbeatable team of experienced, knowledgeable and friendly engineers and hire experts.

5 YOUR GUARANTEE OF THE BEST CUSTOMER SERVICE

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*subject to availability and conditions

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