



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 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 iPad," 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

Dewpoint Meter

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



Flexible

The Elcometer 319 can be used as either a hand-held dewpoint meter or as a remote data logging monitor.¹

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 Those in Orange are current and those in Grey have been superseded but are still recognised in some industries.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



Climatic Conditions

Elcometer 319

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



View up to 5 user selectable statistics on screen



Review individual readings



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



Te - Ideal for use as a simple thermometer



Waterproof and rugged to IP66

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

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



Remote monitoring of climatic parameters

Dewpoint Meter

| Model | | |
|---|---|------------|
| Part Number | | |
| Reading Paramet RH, Ta, Ts (Te ⁶), 1 | ers - ⁻d, TΔ, Tdb, Twb¹, SH¹ | |
| | er of readings, standard deviation, of variation, minimum, maximum | |
| Dustproof & Wate Sensors - equival | rproof Gauge with Fully Sealed ent to IP66 | |
| Integral Magnets | - secure the gauge during logging | |
| • | audible, visual, red/green LED against any or all parameters | |
| Multilingual Menu | s | |
| Backlight - user se | electable | |
| K-Type Connecto | r for External Measurement | |
| Memory - with rea | ding and statistic review | |
| Manual Logging | | |
| Interval Logging ² | | |
| Data Output | | |
| USB | | |
| Bluetooth® to co | mputer, Android [™] & iOS⁴ devices | |
| ElcoMaster [®] sof | tware & USB cable | |
| | | Te |
| Gauge⁵ | | -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 x |
| Battery Life | | Ma Inte |
| Dimensions | 180 x 75 x 35mm (7 x 3 x 1.4") | We |
| Packing List | | Elc |
| 0 | | cas |
| | | ins |

| Accessories | | |
|---|---|--|
| T31920162 | Magnetic Surface Temperature Probe; -4 | |
| T9996390- | Liquid Temperature Probe; -200 to +1100 | |
| T99921325 | USB Cable | |
| T99916063 | Wrist Strap | |
| T99923480 | Protective Carry Case/Pouch | |
| ¹ Calculated Value ² With Part Number T31920162 ³ a ⁴ Visit www.elcometer.com/sdk to find out how to integrate Elcometer's MFi certified ⁵ Do not expose the gauge to temperatures outside the gauge and LCD operating rate ⁶ Accuracy ±2°C (4°F) with K Type probes supplied by Elcometer. Gauge tested with ⁷ Accuracy ±0.75°C below 10°C (±1.35°F below 50°F) | | |
| | | |

• Certificate supplied as standard.

elcometer

Elcometer 319

| | | C |
|---|----------------------------|------------------------|
| Model S | Model T | Certificate |
| G319S | G319T | • |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| Last 10 records | 999 batches | |
| | | |
| | Adjustable betwee | en 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) ⁷ | 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) ⁶ | 0.1°C (0.1°F) |
| to 100%RH | ±3%RH ³ | 0.1% |
| 20°C to +80°C (-4°F to +176° | F) | |
| x AA batteries or via USB Ca | able | |
| lanual Mode: Greater than 40 hterval Logging: up to 400 hou | | |
| /eight | 300g (0.66lb) | |
| Icometer 319 Dewpoint Mete ase, calibration certificate, US astructions | | |
| | | |
| 40 to +80°C (-40 to +176°F) | | |
| 0°C (-328 to +2012°F) | | |
| | | |
| | | |
| | | |

t 1m/s products to your App. ange n voltage input

Climatic Conditions

Elcometer 319 Dewpoint meter

Dewpoint meter

................

Create instant reports with ElcoMaster®

USB

🚯 Bluetooth

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;

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;

- 0

- 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

Climatic Conditions

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

PDF

Fmail

ANDROID APP ON

Google play

Stropbox 💦 Google Drive

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

Elcometer 319











ENGLAND

Elcometer Limited Manchester M43 6BU Tel: +44 (0)161 371 6000 Fax: +44 (0)161 371 6010 sales@elcometer.com www.elcometer.com

BELGIUM

Elcometer SA 107 Rue Jean Lambert Defrêne 4340 Awans Tel: +32 (0)4 379 96 10 Fax: +32 (0)4 374 06 03 be_info@elcometer.com www.elcometer.be

FRANCE

Elcometer Sarl 45380 La Chapelle-Saint-Mesmin Tel: +33 (0)2 38 86 33 44 Fax: +33 (0)2 38 91 37 66 fr_info@elcometer.com www.elcometer.fr

GERMANY

Elcometer Instruments GmbH D-73431 Aalen Tel: +49(0)7361 52806 0 Fax: +49(0)7361 52806 77 de_info@elcometer.de www.elcometer.de

THE NETHERLANDS

Elcometer NL Euclideslaan 251 3584 BV Utrecht Tel: +31 (0)30 259 1818 Fax: +31 (0)30 210 6666 nl_info@elcometer.com www.elcometer.nl

JAPAN

Elcometer KK Saint Paul Building, 6F, 5-14-11,Higashiooi, Shinagawa-ku,Tokyo 140-0011 Tel: +81-(0)3-6869-0770 Fax: +81-(0)3-6433-1220 jp_info@elcometer.com www.elcometer.jp

REPUBLIC OF SINGAPORE

Elcometer (Asia) Pte Ltd Singapore 589472, Tel: +65 6462 2822 Fax: +65 6462 2860 asia@elcometer.com www.elcometer.com.sg

USA

MICHIGAN Elcometer Inc Rochester Hills Michigan 48309 Tel: +1 248 650 0500 Toll Free: 800 521 0635 Fax: +1 248 650 0501 inc@elcometer.com www.elcometer.com

TEXAS

Elcometer of Houston 1146 Sheffield, Unit D, Houston, TX 77015 Tel: +1 713 450 0631 Toll Free: 800 521 0635 Fax: +1 713 450 0632 inc@elcometer.com www.elcometer.com



Elcometer 319 Model T: Made for iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5, 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/Pod 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.

iPad, iPhone, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a trademark of Apple Inc., registered in the U.S. and other countries. Suitable for mobile devices running Android software version 2.1 and upwards. Elcometer is a registered trademark of Elcometer Limited. All other trademarks acknowledged. © Elcometer Limited, 201. All rights reserved. No part of this document may be reproduced, transmitted, stored (in a retrieval system or otherwise), or translated into any language, in any form, or by any means, without the prior written permission of Elcometer Limited.

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