## elcometer

# **Elcometer 319 Dewpoint Meter**

Can be used in accordance with: BS 7079-B4\*, IMO MSC.215(82), IMO MSC.244(83), ISO 8502-4, US Navy NSI 009-32, US Navy PPI 63101-000



The Elcometer 319 Dewpoint Meter is designed to measure and record all relevant climatic parameters required to determine whether the conditions are suitable for painting.

The versatile gauge can be used as a hand-held dewpoint meter or as a remote data logging monitor<sup>1</sup> and is able to measure and record the following climatic parameters:

- Relative humidity
- Air temperature
- Surface temperature
- Dewpoint temperature
- TA (the difference between surface temp & dewpoint)
- Dry Bulb temperature
- Wet Bulb temperature
- External temperature correction (K-type)
- Specific humidity

#### Quick, Simple and Easy-to-Use

- The Elcometer 319 Dew Point Meter features both manual and automatic data logging in one gauge<sup>1</sup>, with integrated magnets allowing the gauge to be attached to a substrate during remote logging. Its rapid response time and intuitive menu structure make measuring climatic conditions quick and easy.
- Adjustable limits can be set for each measurement parameter which triggers visual and audible alarms whenever a limit is exceeded, ideal for use in paint booths.

#### **Flexible and Versatile**

• Using external probes, the versatile gauge can also be used as a thermometer - ideal for measuring temperature of paint prior to application and to measure surface temperature during remote logging.

#### It's what you do with the data that counts

 Via Bluetooth® or USB, the Elcometer 319 can be connect to a PC, Android<sup>™</sup> or iOS mobile device to download data into an inspection application or ElcoMaster®. Data can then be sent to colleagues and clients in real-time and instant professional inspection reports can be generated at the press of a button.

### Video



#### YouTube Video - An Introduction to Climatic Testing (Click on the image to the left to view)

When it comes to applying a coating; whether in a shipyard, in a construction yard, or even in a warehouse; even if you have successfully controlled and monitored the surface cleanliness, surface profile, and both the wet and dry film thickness, if the climatic conditions are wrong at the time of application, this could cause the coating to fail – regardless of the success of the other parameters.

\* Standards not in <u>bold</u> have been superseded but are still recognised in some industries







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







1 Model T only

2 Based on one reading every 10 minutes in logging mode.

#### For Table below

- 1 Calculated Value
- 2 With Part Number T31920162
- з Accuracy ±0.75°C below 10°C
- 4 Accuracy ±2°C with K Type probes supplied by Elcometer. Certificate supplied as standard





View up to 5 user selectable statistics on screen



Review individual readings

#### Accurate

- Meets ISO 8502-4
- Each instrument is supplied with a Calibration Certificate
- 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
- Hold/freeze function allows manual readings to be reviewed before being added into the memory

#### Flexible

- Can be used as a hand-held dewpoint meter or as a remote data logging monitor<sup>1</sup>
- Magnetic Surface Temperature Probe allows measurement of surface temperature during remote logging
- Liquid temperature probe transforms the gauge into a thermometer

#### Durable

- Safe use in climates ranging between -20°C and +80°C
- Waterproof and dust proof with fully sealed sensors rating equivalent to **IP66**
- Re-engineered sensors have greater durability for an extended life

#### **Powerful**

- Data can be downloaded to a PC via USB or Bluetooth® and evaluated using ElcoMaster® Software1
- Powered by either two AA batteries (for up to 400 hours<sup>2</sup> use) or directly via the USB cable
- Intelligent memory calculates total available logging time when using batches
- Stores 25,000 records in up to 999 batches1
  - 5 At 1m/s
  - # Do not expose the gauge to temperatures outside the gauge and LCD operating range
  - + Model T only



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## **Technical Specifications**

Model		Model S	Model T
Part Number		G319S	G319T
Reading Parameters - RH, Ta, Ts, Td, T $\Delta$	, Tdb, Twb¹, SH¹		
Statistics - number of readings, standard of	leviation, mean,	_	
coefficient of variation, minimum, maximur			
Dustproof & Waterproof Gauge with Fully equivalent to IP66	Sealed Sensors –	•	•
Integral Magnets - secure the gauge durin	g logging		-
High/Low Limits - audible, visual, red/gree be set against any or all parameters.	n LED alarms can	•	•
Multilingual Menus			
Backlight- user selectable			
K-Type Connector for External Measurem	ent		
Memory - with reading and statistic review		Last 10 records	25,000 records in 999 batches
Manual Logging			
Interval Logging <sup>2</sup>			Adjustable between 1 second and 1 hour
Data Output			
USB			
Bluetooth® to computer, Android™ & iC	DS* devices		
ElcoMaster® software & USB cable			
Certificate			
	Temperature Range	Accuracy	Resolution
Gauge <sup>#</sup>	-20 to +80°C	±0.5ºC	0.1ºC
Air Temperature (Ta)	-20 to +80°C	±0.5°C <sup>3</sup>	0.1ºC
Surface Temperature (Ts)	-20 to +80°C	±0.5°C	0.1ºC
External K-Type Thermocouple (Te)	-40 to +200°C	±0.5°C <sup>4</sup>	0.1ºC
Relative Humidity (RH)	0 to 100%RH	±3%RH⁵	0.1%
Gauge & LCD Operating Range	-20°C to +80°C		
Power Supply	2 x AA 1.5V 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)		
	Interval Logging: up to	400 hours (1 readin	g every 10 minutes)
Dimensions	Interval Logging: up to 180 x 75 x 35mm	400 hours (1 readin	g every 10 minutes)

### **Packing List**

Elcometer 319 Dewpoint Meter	
2 x AA Batteries	
Wrist Strap	
Carry Case	
Calibration Certificate	
USB Cable⁺	
ElcoMaster <sup>®</sup> Software <sup>+</sup>	STATISTICS OF THE OWNER
Operating Instructions	

### **Accessories**

Part Number	Description
T31920162	Magnetic Surface Temperature Probe; -40 to +80°C
T9996390-	Liquid Temperature Probe; -200 to +1100°C
T99921325	USB Cable
T99916063	Wrist Strap
T99923480	Protective Carry Case/Pouch







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