

Elcometer 214 Infrared Digital Thermometer



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The Elcometer 214 Infrared Digital Thermometer is a hand held battery operated instrument, which safely and accurately measure surface temperature of non reflective materials using infrared technology.

- Non-Contact infrared technology allows fast, non contact temperature measurement which avoids surface contamination
- Lightweight

The Elcometer 214 Infrared Digital Thermometer has a spot ratio of 3:1. The closer you get to the object under inspection, the smaller the spot size and hence the more accurate the reading.

The diagram explaining optic (spot) ratios is shown below.

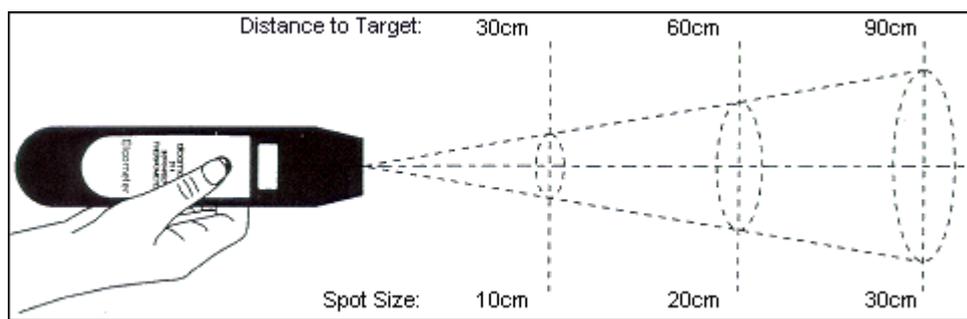
Climatic Condition Testing

During the application of a coating, the presence of moisture in the environment, or on the work surface, often results in a poor quality finish. Problems such as poor adhesion of the coating or premature corrosion of the substrate can occur.

To determine the likelihood of moisture affecting the quality of the finish, it is essential that the surface temperature, air temperature, relative humidity (RH) and dewpoint are all measured.

At a glance

- Hand-held instrument.
- Non-contact temperature measurements.
- Spot ratio of 3:1.



| | |
|----------------------------------|---------------------------------------------|
| Temperature Range | -18 to 315°C (0 to 600°F) |
| Resolution | 1°C (1°F) |
| Accuracy | ±2% of reading or ±2°C (±3°F) |
| Ambient Temperature Range | 10 to 52°C (50 to 125°F) |
| Field of View | 3:1 Optics Ratio with a 25mm Minimum Target |
| Repeatability | ±0.5% of reading ±1 digit |
| Emissivity | Fixed at 0.95 |
| Response Time | 1 second |
| Display | 3 digit – 10mm Liquid Crystal Display |
| Battery Type | 9V MN1604 Alkaline Battery |
| Battery Life | Approximately 100 hours |
| Case Dimensions | 184 x 43 x 19mm (7.3 x 1.7 x 0.75") |
| Instrument Weight | 77g (0.17lb) without battery |

| Model | Description | Part Number |
|---------------|--------------------------------------------|--------------------|
| Elcometer 214 | Elcometer 214 Infrared Digital Thermometer | G214----1 |

Related products



Elcometer 214L

The Elcometer 214L infrared thermometer with laser pointer is compact, lightweight and easy to use. Simply aim, pull the trigger and display the surface temperature of the object being measured. Release the trigger to hold the reading. Instant temperature readings and non-contact.



Elcometer 213

A portable digital thermometer which allows quick and easy measurements for a wide range of applications using the K-type thermocouple, including the measurement of surface and air temperatures, liquid temperatures and soft material temperatures.



Elcometer 212

Designed to cope with routine day to day use, the Elcometer 212 digital pocket thermometer is the gauge to take fast, accurate measurements of either the surface or the coating temperature. The probe can be protected by folding it into the handle - this also switches the gauge off.



Elcometer 113

These magnetic thermometers indicate the surface temperature of steel and other magnetic materials continuously. The thermometer is placed onto the substrate and the temperature is displayed on the dial. As the principle of operation uses a bi-metallic strip, no batteries are required.

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