

**TQC DEWCHECK 4 – SERIES 2**

DC7100

DATASHEET

**PRODUCT DESCRIPTION**

The TQC DewCheck 4 - Dewpoint Meter (DPM)/ Dewmeter is an extremely versatile dewpoint meter to measure and record all climate parameters required to treat surfaces. This easy to use and robust dewmeter conforms to ISO 8502-4 & ASTM D3276-07 and measures the relative humidity (%RH), ambient temperature (Ta) and surface temperature (Ts) and calculates the dewpoint temperature (Td) and the difference between the dewpoint temperature and the surface temperature (ÄT). The difference between the surface temperature and dewpoint temperature indicates the optimal climate conditions for painting. All parameters can be stored in the dewmeter's memory, tagged with a date and time.



For communication between DewCheck 4 dewmeter and a PC the DewCheck dewmeter USB cable is standard supplied. To analyze the data the DewCheck 4 comes with the special Ideal Finish Analysis software. This software is the most advanced temperature and humidity monitoring software package for Dewpoint Meters available today. It offers user friendly reporting functions for standard production work as well as advanced calculations for in depth analysis of the climate parameters prior to coating. Detailed graphic representations and customizable reports help to make the right decisions.

**BUSINESS**

Coating industry, Construction / building maintenance, galvanize, Paint, shipping industry, steel protection

**STANDARDS**

ISO 8502-4, ASTM D3276-05, BS 7079-B4, NACE RP prop 97

**FEATURES**

- Large illuminated graphic display
- One-hand operation
- Simple menu-driven user interface
- Extensive data-logging capabilities, readings are time and date stamped and stored on the gauge
- USB-Interface connects the unit to the PC for programming and downloading data.
- To be used as "on the spot" inspectors tool or "stand-alone" data logger
- Heavy duty ergonomic case
- Set limits for each parameter
- Acoustic and visual alarms
- Select Celsius / Fahrenheit
- Automatic trend indicator shows the trend of climatic conditions (rising, falling, stable)
- High-end industrial sensors and built- in probes
- Integrated 'back-up' LED flashlight
- DewLog temperature and humidity monitoring software included
- Two year valid calibration certificate!

**SCOPE OF SUPPLY**

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- TQC Dewcheck 4 dewpoint gauge
- Leather pouch
- Wrist strap
- USB cable
- Calibration certificate included

**ORDERING INFORMATION**

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DC7100 – TQC Dewcheck 4 Dewpoint Gauge – series 2

**ACCESSORIES**

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DC7520 Docking Station **for DewCheck Series 2**

DC7510 USB communication cable

DC7010 Spare leather pouch

**SPECIFICATIONS**

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**HUMIDITY**

- Accuracy (0...80 °C, 0...176 °F)  $\pm 3$  % RH
- Measurement resolution 0.1 %
- Measurement range 0...100 % RH

**TEMPERATURE**

Temperature Ta (Air)

- Accuracy  $\pm 0.5$  °C,  $\pm 1$  °F (over the full measurement range)
- Measurement resolution 0.1 °C, 0.1 °F
- Measurement range - 20...+ 80 °C, - 4...+ 176 °F

Temperature Ts (Surface)

- Accuracy  $\pm 0.5$  °C,  $\pm 1$  °F (over the full measurement range)
- Measurement resolution 0.1 °C, 0.1 °F
- Measurement range - 30...+ 60 °C, - 22...+ 140 °F

Temperature Ts (Surface External)

- Accuracy  $\pm 0.5$  °C,  $\pm 1$  °F (over the full measurement range)
- Measurement resolution 0.1 °C, 0.1 °F
- Measurement range - 30...+ 60 °C, - 22...+ 140 °F

**DISPLAY**

Graphical presentation with backlight.

- Operating temperature range - 20 °C...60 °C, - 4...+ 140 °F

**KEYS**

- Menu 3
- On / off 1 (electronic)
- LED flashlight 1 (electronic)

#### MEMORY

- Type Dynamic
- Memory size manual logging 6000 records
- Record content manual logging time/date, humidity, Ta, Ts, Td, Tdelta, status byte for alarm.
- Memory size interval logging 12000 records
- Record content interval logging Humidity, Ta and Ts. Other parameters and date and time are calculated.
- Batches 8 Batches max.

#### MEASUREMENT / FEATURES

- Limits Adjustable for each parameter
- Lo-Hi Alarms Beep sound , symbol in display and RED Led.
- Hold/freeze function Yes
- Data storage Two modes: Manual and interval(auto)
- Data recall Gauge displays average, min/max of each batch.  
Downloading to PC possible via optional adapter.

Battery indicator	Yes, detailed.
Trend indicator	Yes.
User interface	Menu driven through up/down/enter key.
Languages	4 languages, English, German, French, Spanish
Extra	Built-in bright white LED orientation flashlight.

#### SPECIAL CARE

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- Though robust in design, this instrument is precision-machined. Never drop it or knock it over
- Always clean the instrument after use.
- Clean the instrument using a soft dry cloth. Never clean the instrument by any mechanical means such as a wire brush or abrasive paper. This may cause, just like the use of aggressive cleaning agents, permanent damage.
- Do not use compressed air to clean the instrument.
- Always keep the instrument in its case when not in use.
- We recommend annual calibration

#### SAFETY PRECAUTIONS

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- Always keep the instrument in its pouch when not in use. Ensure the instrument is correctly inserted in the pouch with the display in the front.
- The humidity sensor is fragile and should never be touched. Do not use compressed air to clean the sensors or the instrument.

#### DISCLAIMER

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The right of technical modifications is reserved.

The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. Whilst we

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