MEASURE

RH ↑ 71,9 %
T.s   23,2°C
T.a ↓ 24,1°C
T.d ↓ 18,7°C

T△   4,5°C

Measure

Hold ◀
Menu

TQC Sheen DewCheck 4 Series 2

DC7100

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

For communication between the DewCheck 4 and a PC, a special DewCheck 4 USB cable is supplied as standard. To analyze the data the DewCheck 4 uses downloadable Ideal Finish Analysis software. This software 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.

Ideal for

Coating industry, building construction and maintenance, galvanizing, paint, shipping industry, steel protection.

Standards

ISO 8502-4, ASTM D3276-05, BS 7079.

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
- USB-Interface for downloading data
- Works as "on the spot" inspectors tool or "stand-alone" data logger
- Heavy duty ergonomic case
- Programmable limits for each parameter
- Acoustic and visual alarms
- Displays temperatures in Celsius or Fahrenheit
- Automatic trend indicator shows the trend of climatic conditions (rising, falling, stable)
- High-end industrial sensors and built-in probes
- Integrated LED flashlight
- Calibration certificate with two year validity

Scope of Supply

- TQC Sheen DewCheck 4 dewpoint meter
- Leather pouch
- Wrist strap
- USB cable
- Calibration certificate

Ordering Information:

Catalog Number	Article Description
DC7100	TQC Sheen DewCheck 4 Dewpoint Meter – Series 2

Accessories:

Catalog Number	Article Description
DC7510	USB communication cable
DC7010	Spare leather pouch

INDUSTRIAL PHYSICS

TQC sheen

The Climate Gauge for Industrial Coating

Climatic conditions are of high importance during professional coating jobs. Climate parameters like ambient air temperature, relative humidity and surface temperature will affect: Condensation, drying time, cure behaviour, overcoat time etc.

Climatic conditions can cause problems, such as: flash rust, poor adhesion, delaminating of coating layers, pores, poor curing, degradation of coating's physical properties, corrosion under the coating, and long term performance.

All climate parameters can be measured during each stage of the coating job

Blasting

Coating

Curing

Frequent or even continuous measurements of all climate parameters is crucial for ensuring high quality coatings and guarantee long-term coating performance.

DewCheck has been the first instrument especially designed for this application.

The Climate Gauge

- **RH:** Relative Humidity
- **Ts:** Surface temperature
- **Ta:** Ambient air temperature
- **Td:** Dewpoint temperature
- **ΔT:** Difference between dewpoint and surface temperature

Simple
- One hand operation, keeps one hand free for the operator
- Easy menu-driven user interface in the language of your choice, (English, German, French or Spanish)
- Clear illuminated display shows all 5 parameters at a glance including battery status

Accurate
- Premium quality industrial sensors combined with sophisticated calibration procedures guarantee accuracy over extended periods of time. Accuracy guaranteed for two years!
- Trend indicator shows when gauge is acclimatized and reads the correct values
- RH-probe is equipped with a unique integrated filter to protect the sensor from most airborne contaminations

Versatile
- To be used as real-time handheld gauge
- Log data while measuring or choose automatic interval data logging
- Integrated LED flashlight, great for confined spaces

Durable
- Rugged gauge, designed for use in harsh industrial environments
- All built-in probes. No sensitive sensor cables that get stuck or damaged
- Rubber injected case for protection and firm grip

Flexible
- Limits can be set for each parameter. Acoustic and visual alarms when exceeding an active limit
- Hold/freeze function
- Choose Celsius/Fahrenheit
- Detailed battery indicator

INDUSTRIAL PHYSICS

TQC sheen

Technical Specification:

Humidity

Accuracy:	± 3 % RH at 23 °C
Measurement resolution:	0,1 % RH
Measurement range:	0...100 % RH

Temperature Ta (Air)

Accuracy:	±0,5 °C, ± 1 °F (over the full measurement range)
Measurement resolution:	0,1 °C, 0,1 °F
Measurement range:	-20 to +80 °C, -4 to +176 °F

Temperature Ts (Surface)

Accuracy:	±0,5 °C, ±1°F (over the full measurement range)
Measurement resolution:	0,1 °C, 0,1 °F
Measurement range:	-30 to +60 °C, -22 to +140 °F

Temperature Ts (Surface External)
(obsolete for reference only)

Accuracy:	± 0,5 °C, ± 1 °F (over the full measurement range)
Measurement resolution:	0,1 °C, 0,1 °F
Measurement range:	-30 to +60 °C, -22 to +140 °F

Display

Graphical with backlight:	
Operating temperature range:	-20 °C to 60 °C, -4 to +140 °F

Keys

Menu:	3
On/off:	1
LED flashlight:	1

Memory

Type:	Dynamic
Memory size manual logging:	6.000 records
Record content manual logging:	Batch number, date and time, humidity, Ta, Ts, Td, ΔT, status byte for alarm
Memory size interval logging:	12.000 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 supplied USB cable

Measurement/Features

Battery indicator:	Yes
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

Disclaimer

The information contained in this document is liable to modification from time to time in the light of experience and our policy of continuous product development. Check the Industrial Physics website for the latest version.

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IP INDUSTRIAL PHYSICS

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