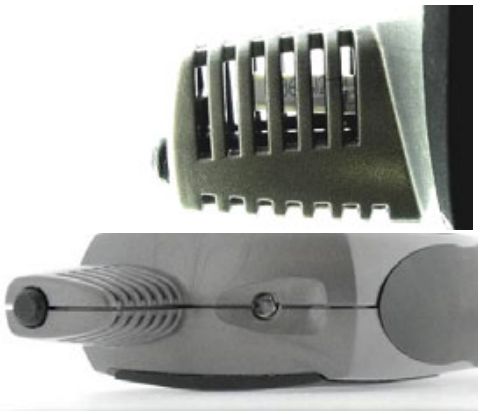
DewCheck series 4

DC7000 (+ DC7500 - optional docking station)

Datasheet

Product Description: Extremely versatile tool for measuring and recording all climate parameters required for treating surfaces. This easy-to-use and robust instrument measures air temperature, surface temperature, air humidity and dewpoint and calculates the difference between the surface and dew point temperature, indicating optimum climate conditions for painting. All parameters, incl. time and date, are stored in the memory, can be retrieved at a later stage.

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



Application area's Coating/Paint Industry, Galvanise, Construction/building maintenance, Painters, Shipping Industry, Steel Protection.

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
- 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
- Two year valid calibration certificate!

Additional Information: For optimal use of the datalogging facilities of the instrument the DewCheck Dock(art. nr. DC7500) is available.
Features:

- 3 strong Neodymium magnets hold instrument and dock firmly against ferrous steel surfaces. Magnets are lined with rubber to prevent damaging the surface and sliding of the unit.
- A magnetic surface temperature sensor overrides the instrument's integrated surface temperature sensor in order to guarantee correct TS-readings.
- USB-Interface connects the unit to the PC for programming and downloading data.

NOTE: THE DEWCHECK DOCK IS INDISPENSABLE FOR COMMUNICATION BETWEEN DEWCHECK AND COMPUTER.

Specifications

HUMIDITY

• Accuracy (at 23°C)	±3% rh
• Measurement resolution	0.5%
• Measurement range	0…100%rh

TEMPERATURE

Temperature Ta (Air)

• Accuracy	± 0.5 °C, ± 1 °F
• Measurement resolution	0.1 °C, 0.1 °F
• Measurement range	-20…+80 °C, -4…+176 °F

Temperature Ts (Surface)

• Accuracy	± 0.5°C, ± 1°F
• Measurement resolution	0.1°C, 0.1°F
• Measurement range	-30…+60 °C, -22…+140 °F

Temperature Ts (Surface External)

• Accuracy	± 0.5°C, ± 1°F
• 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	Menudriven through up/down/enter key.
Languages	4 languages, English, German, French, Spanish
Extra	Built-in bright white LED orientation flashlight.

Specifications (2)

HARDWARE

Case	Plastic custom housing with protective rubber-parts at the side and around the display window.
Wriststrap	Yes
Dimensions	195 x 75 x 35 mm.
Weight (incl. batteries)	± 300 gram

POWER

Batteries	3 X AA 1.5 batteries,
- Typical lifetime	- OFF > 2 years - Interval logging: > 1 year with 10 min. interval measurement - Manual logging: 400 hours continuous operation.

Accessories

DC7500	Docking Station
DC7010	Spare leather pouch

Delivery

The DewCheck4 with ordercode DC7000 is supplied with the following items:

- Instrument DewCheck4
- 3 X AA Alkaline batteries, placed inside the instrument
- Genuine leather pouch
- Handstrap
- Calibration certificate
- English manual

The DewCheck4 Dock with ordercode DC7500 is supplied with the following items:

- Dock unit
- USB-cable
- Magnetic surface temperature probe
- DewLog evaluation software
- Allen key 2.5 mm.

Safety Precautions:

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