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Dew Point Meter

PosiTector®

Measures and records climatic conditions including: Relative humidity, air temperature, surface temperature, dew point temperature, and difference between surface and dew point temperatures. Ideal for surface preparation as required by ISO 8502-4.

Rugged Features...

Specifications

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<th>Range</th>
<th>Accuracy</th>
<th>Resolution</th>
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<tr>
<td>Surface Temperature</td>
<td>–40˚ to 80˚ C</td>
<td>± 0.5˚ C</td>
<td>± 0.1˚ C</td>
</tr>
<tr>
<td></td>
<td>80˚ to 190˚ C</td>
<td>± 1.5˚ C</td>
<td>± 0.1˚ C</td>
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<tr>
<td></td>
<td>175˚ to 375˚ F</td>
<td>± 3˚ F</td>
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<tr>
<td>Infrared Surface Temperature</td>
<td>–70˚ to 380˚ C</td>
<td>± 1˚ F + 1%2</td>
<td>± 0.1˚ F</td>
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<tr>
<td></td>
<td>–94˚ to 716˚ F</td>
<td>± 2˚ F + 1%2</td>
<td>± 0.1˚ F</td>
</tr>
<tr>
<td>Air Temperature</td>
<td>–40˚ to 80˚ C</td>
<td>± 0.5˚ C</td>
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<td></td>
<td>–40˚ to 175˚ F</td>
<td>± 1˚ F</td>
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</tr>
<tr>
<td>Humidity</td>
<td>0 to 100%</td>
<td>± 3%</td>
<td>± 0.1%</td>
</tr>
<tr>
<td>Wind Speed</td>
<td>0 to 20 m/s</td>
<td>± 3% Full Scale</td>
<td>± 0.1 m/s</td>
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<tr>
<td>Dew Point</td>
<td>–60˚ to 80˚ C</td>
<td>± 3˚ C</td>
<td>± 0.1˚ C</td>
</tr>
<tr>
<td></td>
<td>–76˚ to 175˚ F</td>
<td>± 5.4˚ F‡</td>
<td>± 0.1˚ F</td>
</tr>
</tbody>
</table>

Options

PosiTector Probes

PosiTector body accepts all PosiTector DPM, IR, 6000, 200, RTR, SPG, SST, SHD, BHI, and UTG probes easily converting from a dew point meter to a coating thickness gage, surface profile gage, soluble salt tester, hardness tester, or ultrasonic wall thickness gage.

PosiTector DPM IR Specifications

Distance to Spot Ratio (D:S) 4:1
Emmissivity Adjustable
Response Time <500 ms (95% response)

PosiTector® DPM L

Dew Point Meter Logger

Magnetic probe attaches to steel structures for monitoring climatic conditions

Additional K-type Sensors for use with the PosiTector DMPS only

Hand-held Surface Temperature Probe

for spot checking hard-to-reach surfaces

Liquid Temperature Probe

general purpose probe with stainless steel shaft

Bluetooth® Printer
receives data from Advanced Models

AC Power Kit
for continuous operation—works in any country

Bluetooth™ Printer receives data from Advanced Models

Sealed connector protects probe from water and dust intrusion

Ergonomic design with durable rubberized grip

Auto rotating display with Flip Lock and on-screen help

Ergonomic design with durable rubberized grip

Redesigned keypad for quick navigation

Sealed connector protects probe from water and dust intrusion

Built-in thermocouple or infrared surface temperature sensor

Sealed connector protects probe from water and dust intrusion

2.8” impact resistant color touchscreen display

Auto rotating display with Flip Lock and on-screen help

Ergonomic design with durable rubberized grip

Redesigned keypad for quick navigation

Sealed connector protects probe from water and dust intrusion

Built-in thermocouple or infrared surface temperature sensor

Sealed connector protects probe from water and dust intrusion

2.8” impact resistant color touchscreen display
Simple
- All readings are constantly updated and displayed simultaneously.
- Alarms indicate when climate conditions are unsuitable for painting.
- OF “Large 2.8” impact resistant color touchscreen with redesigned keypad for quick menu navigation.

Durable
- NEW Weatherproof, dustproof, and water-resistant—IP65-rated enclosure.
- Shock-absorbing protective rubber body for added impact resistance.
- Two year warranty on gage body and probe.

Accurate
- Fast response precision sensors provide accurate, repeatable readings.
- Smart Trend™ indicators identify rising, falling, or stable readings.
- Certificate of Calibration showing traceability to NIST included.
- Conforms to national and international standards including ISO and ASTM.

Versatile
- PosiTector body accepts all PosiTector DPM, RT, 6000, 200, RTR, SPG, SST, SHD, BHI, and UTG probes easily converting from a dew point meter to a coating thickness gage, surface profile gage, soluble salt tester, hardness tester, or ultrasonic wall thickness gage.
- Auto Log mode records environmental parameters at user selected time intervals.
- New Auto rotating display with Flip Lock.

Powerful
- NEW Screen Capture—save 100 screen images for record keeping and review.
- NEW Instant-on feature quickly powers up the gage if recently powered down.
- NEW Up to 30% longer battery life.
- USB port for simple connection to a PC and to supply continuous power. USB cable included.
- PosiSoft USB Drive—stored readings and graphs can be accessed using universal PC/Max web browsers or file explorer. No software required.
- Every stored measurement is date and time stamped.
- Includes PosiSoft suite of software for viewing and reporting data.

Remote Monitoring with Auto Log Mode
In addition to its capability as a handheld instrument, the PosiTector DPM Advanced model’s innovative Auto Log feature can be used to...
- Monitor and record climatic conditions at user-selected intervals.
- Advanced models allow you to create new batches at daily, weekly, or monthly intervals.
- Upload readings to the cloud-based PosiTector Desktop software after each measurement.* Receive email alerts when readings exceed pre-defined parameters.
- Upload readings to an FTP server for integration with third party software.
- View environmental readings from one or more gages in remote locations from PosiSoft Desktop software or web-based PosiSoft.net.

Measured/Calculated Parameters
- PosiSoft Desktop software includes the PosiTector DPM Monitor feature for continuous charting of readings from one or more dew point meters.
- PosiTector DPM Monitor retrieves data from PosiSoft.net once every minute.

Advanced Models
- New storage of 250,000 datasets from multiple probes in up to 1,000 batches.
- Enhanced Auto Log mode powers the gage off between readings for up to 6 months of battery life. Each reading can be uploaded to PosiSoft.net or an FTP server using WiFi. Automatically group readings into batches at daily, weekly, or monthly intervals.
- User-defined alarms for all parameters—visible and audible warnings. Receive email alerts when connected to WiFi.
- Trend Charts graph readings in real-time.
- New Touchscreen keyboard for quickly renaming batches, adding notes, and more.
- WiFi technology wirelessly synchronizes with PosiSoft.net and downloads software updates.
- Bluetooth® 4.0 Technology for data transfer to a mobile device running the PosiTector App or optional portable printer. BLE API available for integration into third-party software.
- Store thickness, profile, environmental, salt contamination, hardness, and wall thickness measurements in individual batches.
- Wet bulb temperature can be displayed and recorded.

Standard Models
- Includes ALL features as shown on left plus...
  - Storage of 2,500 datasets per probe—stored readings can be viewed or downloaded.
  - Auto Log mode runs unattended on batteries for up to 50 hours or continuously via USB.

Measured/Calculated Parameters
- Surface Temperature
- Air Temperature
- Wet Bulb Temperature*
- Relative Humidity
- Dew Point Temperature
- Surface Temperature minus Dew Point Temperature
- Dew Point Temperature

Powerful

PosiTector DPM A shown with NEW Auto rotating display with Flip Lock.

PosiTector DPM B includes (1/2" NPT) threads for insertion into pipes (max 200 psi).

PosiTector DPM IR probe includes a non-contact infrared surface temperature sensor.

Ordering Guide

Standard Body and Probe
- DPM1
- DPMR1
- DPMS1
- DPM1A
- DPM1D

Advanced Body and Probe
- DPM3
- DPMR3
- DPMS3
- DPM3A
- DPM3D

PROBE ONLY
- PRBDPM
- PRBDPMR
- PRBDPMS
- PRBDPM3
- PRBDPM4
- PRBDPM5

Ordering Guide


digi Dashboards

Pinpoint readings for continuous charting of readings from one or more dew point meters.

PosiTector Desktop software includes the PosiTector DPM Monitor feature for continuous charting of readings from one or more dew point meters.

PosiTector DPM Monitor retrieves data from PosiSoft.net once every minute.

Ordering Guide

Standard Body and Probe
- DPM1
- DPMR1
- DPMS1
- DPM1A
- DPM1D

Advanced Body and Probe
- DPM3
- DPMR3
- DPMS3
- DPM3A
- DPM3D

PROBE ONLY
- PRBDPM
- PRBDPMR
- PRBDPMS
- PRBDPM3
- PRBDPM4
- PRBDPM5

Ordering Guide

Standard Body and Probe
- DPM1
- DPMR1
- DPMS1
- DPM1A
- DPM1D

Advanced Body and Probe
- DPM3
- DPMR3
- DPMS3
- DPM3A
- DPM3D

PROBE ONLY
- PRBDPM
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Ordering Guide

Standard Body and Probe
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Advanced Body and Probe
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PROBE ONLY
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Standard Body and Probe
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PROBE ONLY
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Ordering Guide

Standard Body and Probe
- DPM1
- DPMR1
- DPMS1
- DPM1A
- DPM1D

Advanced Body and Probe
- DPM3
- DPMR3
- DPMS3
- DPM3A
- DPM3D

PROBE ONLY
- PRBDPM
- PRBDPMR
- PRBDPMS
- PRBDPM3
- PRBDPM4
- PRBDPM5

*Smart Trend™ indicators identify rising, falling, or stable readings.
*Wind Speed Sensor available for PosiTector DPM IR probe.

*Requires an internet connection.

*All Gages come complete with environmental sensors, protective rubber holster, wrist strap, 3 AAA batteries, instructions, nyion carrying case with shoulder strap (DPM/DPMR/DPMS/DPMIR/DPMIR3), hard shell carrying case (DPMIR), protective lens sheild. Long Form Certificate of Calibration traceable to NIST, USB cable, two year warranty.

**Size: 137 x 66 x 25.4 mm
*Weight: 137 g (4.9 oz.) without batteries.

Analyzer Readings using a web browser

New wire anemometer with your choice of wind speed measurement units — m/s, km/h, mph, ft/s, ft/m, knots. (DPM A models only)

*Size and weight are for the PosiTector body only and do not include the probe.

Conforms to ISO 8502-4, BS 7079-B4, ASTM D2706, IMO PSPC, SSPC-PA7 and US Navy NS 009-32.

Includes Free mobile app

New Auto rotating display with Flip Lock.

Gauges for insertion into pipes (max 200 psi).

PosiTector DPM D includes a non-contact infrared surface temperature sensor.

Analysts Data using a web browser

New wire anemometer with your choice of wind speed measurement units — m/s, km/h, mph, ft/s, ft/m, knots. (DPM A models only)

*Size and weight are for the PosiTector body only and do not include the probe.

Conforms to ISO 8502-4, BS 7079-B4, ASTM D2706, IMO PSPC, SSPC-PA7 and US Navy NS 009-32.

Includes Free mobile app

New Auto rotating display with Flip Lock.

Gauges for insertion into pipes (max 200 psi).

PosiTector DPM D includes a non-contact infrared surface temperature sensor.
Simple
- All readings are constantly updated and displayed simultaneously
- Alarms indicate when climate conditions are unsuitable for painting
- Fits in the palm of your left hand

Durable
- NEW Weatherproof, dustproof, and water-resistant—IP65-rated enclosure
- Shock-absorbing protective rubber sleeve for added impact resistance
- Two year warranty on gage body and probe

Accurate
- High response precision sensors provide accurate, repeatable readings
- Smart Trend indicators identify rising, falling, or stable readings

Versatile
- The PosiTector body accepts all PosiTector DPM, RT, 6000, 200, RTR, SPG, SST, SHD, BHI, and UGI probes easily converting from a dew point meter to a coating thickness gage, surface profile gage, soluble salt tester, hardness tester, or ultrasonic wall thickness gage
- Auto Log mode records environmental parameters at user selected time intervals
- NEW Auto rotating display with Flip Lock

Powerful
- NEW Screen Capture—one 100 screen images for record keeping and review
- NEW Instant on feature quickly powers up the gage if recently powered down
- NEW Up to 30% longer battery life
- USB port for simple connection to a PC and to supply continuous power, USB cable included.
- PosiSoft USB Drive—stored readings and graphs can be accessed using universal PC/Mac web browsers or file explorers. No software required.
- Every stored measurement is date and time stamped
- Includes PosiSoft suite of software for viewing and reporting data

Remote Monitoring with Auto Log Mode

In addition to its capability as a handheld instrument, the PosiTector DPM Advanced model’s innovative Auto Log feature can be used to:

- Monitor and record climatic conditions at user-selected intervals
- Advanced models allow you to create new batches at daily, weekly, or monthly intervals
- Upload readings to the cloud-based PosiSoft.net website after each measurement
- Receive email alerts when readings exceed pre-defined parameters
- Upload readings to an FTP server for integration with third party software
- View environmental readings from one or more gages in remote locations
- User defined alarms for all parameters—visible and audible
- Smart Trend indicators identify rising, falling, or stable readings
- Auto Log mode runs unattended on batteries for up to 50 hours
- Touchscreen keyboard for quickly renaming batches, adding notes, and more
- WiFi technology wirelessly synchronizes with PosiSoft.net and downloads software updates
- Bluetooth 4.0 Technology for data transfer to a mobile device running the PosiTector App or optional portable printer. BLE API available for integration into third-party software
- Display thickness, profile, environmental, salt contamination, hardness, and wall thickness measurements in individual batches
- Wet bulb temperature can be displayed and recorded

PosiTector Desktop software includes the PosiTector DPM Monitor feature for continuous charting of readings from one or more dew point meters.

PosiTector DPM Advanced models include:

- Automatic Log Mode
- Auto Log mode runs unattended on batteries for up to 50 hours
- User defined alarms for all parameters—visible and audible
- Smart Trend indicators identify rising, falling, or stable readings
- Auto Log mode runs unattended on batteries for up to 50 hours
- Touchscreen keyboard for quickly renaming batches, adding notes, and more
- WiFi technology wirelessly synchronizes with PosiSoft.net and downloads software updates
- Bluetooth 4.0 Technology for data transfer to a mobile device running the PosiTector App or optional portable printer. BLE API available for integration into third-party software
- Display thickness, profile, environmental, salt contamination, hardness, and wall thickness measurements in individual batches
- Wet bulb temperature can be displayed and recorded

NEW: All models now include an integrated web browser for quick menu navigation and remote monitoring.

NEW: Universal PC/Mac web browsers or file explorers can be used for quick menu navigation.

NEW: Upload readings to a cloud-based PosiSoft.net website after each measurement.

NEW: View environmental readings from one or more gages in remote locations.

NEW: Trend Charts graph readings in real-time.

NEW: New Touchscreen keyboard for quickly renaming batches, adding notes, and more.

NEW: WiFi technology wirelessly synchronizes with PosiSoft.net and downloads software updates.

NEW: Bluetooth 4.0 Technology for data transfer to a mobile device running the PosiTector App or optional portable printer. BLE API available for integration into third-party software.

NEW: Display thickness, profile, environmental, salt contamination, hardness, and wall thickness measurements in individual batches.

NEW: Wet bulb temperature can be displayed and recorded.

NEW: All gages come complete with environmental sensors, protective rubber holster, wrist strap, 3 AAA batteries, instructions, nylon carrying case with shoulder strap (DPM/DPMIR/DPMA/DPMD), hard shell carrying case, protective rubber holster, long-form Certificate of Calibration traceable to NIST, USB cable, two year warranty.

NEW: All gages come complete with environmental sensors, protective rubber holster, wrist strap, 3 AAA batteries, instructions, nylon carrying case with shoulder strap (DPM/DPMIR/DPMA/DPMD), hard shell carrying case, protective rubber holster, long-form Certificate of Calibration traceable to NIST, USB cable, two year warranty.

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PosiTector® DPM
Dew Point Meter

Measures and records climatic conditions including:
- Relative humidity, air temperature, surface temperature, dew point temperature, and difference between surface and dew point temperatures. Ideal for surface preparation as required by ISO 8502-4.

Rugged Features...
- Sealed USB Port for communicating with a PC or Mac
- Weatherproof, dustproof, and shockproof
- 2.8” impact resistant color touchscreen display
- Auto rotating display with Flip Lock and on-screen help
- Ergonomic design with durable rubberized grip
- Redesigned keypad for quick navigation
- Sealed connector protects probe from water and dust intrusion

PosiTector® DPM IR Specifications
- Distance to Spot Ratio (D:S) 4:1
- Emissivity Adjustable
- Response Time <500 ms (95% response)

Options
- PosiTector Probes
  - PosiTector DPM body accepts all PosiTector DPM, IR, 6000, 200, RTR, SPG, SST, SHD, BHI, and UTG probes easily converting from a dew point meter to a coating thickness gage, surface profile gage, soluble salt tester, hardness tester, or ultrasonic wall thickness gage.

Ergonomic design with durable rubberized grip

Specifications
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| Surface Temperature
  -40° to 80°C      | ± 0.5°C     | 0.1°C     |
  80° to 190°C      | ± 1.5°C     | 0.1°C     |
  175° to 375°F     | ± 3°F       | 0.1°F     |

Infrared Surface Temperature
-70° to 380°C
-94° to 716°F

Air Temperature
-40° to 80°C
-60° to 80°C
-76° to 175°F

Humidity 0 to 100%

Wind Speed
-0 to 20 m/s
-0 to 44 mph

Dew Point
-60° to 80°C
-76° to 175°F

1. DPM IR models only
2. At 23°C (73°F) ambient
3. DPM A models only
4. dependent on RH. See www.defelsko.com/TdAccuracy for more information.

Additional K-type Sensors for use with the PosiTector DPMs only
- Hand-held Surface Temperature Probe
- Liquid Temperature Probe

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PosiSoft® Suite of Software

Powerful ways to view and report your PosiTector and PosiTest data

**PosiSoft Desktop — PC/Mac**

- Powerful desktop software for downloading, archiving, and reporting measurement data.
  - Import readings directly from the gage via USB, WiFi, or legacy PosiSoft Desktop versions
  - Jobs feature consolidates batches into groups to keep measurement data organized and to quickly create multi-batch reports
  - Fully integrates with PosiSoft.net—backup and synchronize jobs, batches, readings, and report templates to the cloud (see inset at right)
  - Export readings as .csv (comma separated value) files for easy import into Excel and other spreadsheets

**PosiTector App — iOS/Android**

- Fully-featured mobile app that connects to the PosiTector SmartLink, PosiTector Advanced gages, and the PosiTest AT-A.
  - Auto pairing Bluetooth BLE connection
  - Add images and notes to individual readings or batches directly from your device
  - Email readings as .csv (comma separated value) files for easy import to Excel and other spreadsheets.
  - Synchronize readings with PosiSoft.net—backup and synchronize jobs, batches, and readings to the cloud (see inset below)

**Mobile Reporting Solution**

- Compile single or multi-batch reports from multiple probes and instrument types
- Add pictures, screen captures, notes, and more
- Email pre-formatted or custom reports from your device instantly

**PosiSoft.net**

- Secure storage of measurement data in the cloud.
- Compatible with PosiSoft Desktop and PosiTector App
- Upload measurement data directly from WiFi-connected PosiTector Advanced gages from anywhere in the world—no software required
- Synchronize and share measurement data across multiple computers

**Ideal for…**

- Users with multiple computers, instruments, and office locations
- Inspection companies managing data from multiple inspectors
- Login from PosiSoft Desktop to synchronize all measurement data and stored report templates from your account

**Prompted Batch Mode**

- Create pre-defined batches with onscreen text and image prompts for each reading and upload to PosiTector 6000, 200, and UTG gages (Advanced models only).
- Ideal for ensuring a consistent measurement pattern for repetitive jobs or when specific measurement locations are required

**Posisoft USB Drive — Gage based**

- A simple gage interface to retrieve data in a manner similar to USB flash drives or cameras. No software to install or internet connection required.
- Measurement data can be printed quickly from a formatted HTML report or exported in .csv format for further analysis in spreadsheets.

**PosiTector Developer Resources**

- Bluetooth 4.0
- WiFi
- Keyboard Mode
- USB Serial

**PosiTector and PosiTest AT-A instruments can integrate with third-party software, drones, ROVs, PLCs, and robotic devices using several industry-standard communication protocols including:**

- Bluetooth 4.0
- WiFi
- Keyboard mode
- USB serial

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DeFelsko Inspection Instruments

Made in U.S.A.