MP Corrosion Innovation of the Year Awards Nomination Form for 2021

Additional Nominee's Name:

Job Title:

Organization:

Mailing Address:

City: State: ZIP/Postal Code: Country:

Telephone:

(If outside the United States and Canada, please include country code)

E-mail:

Is this the primary contact for the Award program? ☐ Yes ☐ No

Additional Nominee's Name:

Job Title:

Organization:

Mailing Address:

City: State: ZIP/Postal Code: Country:

Telephone:

(If outside the United States and Canada, please include country code)

E-mail:

Is this the primary contact for the Award program? ☐ Yes ☐ No

NOTE: The above contact information will not be made public except the nominees' names, job titles, and organizations. However, all information submitted on the following pages will be submitted to the panel of corrosion experts and posted on the MP Corrosion Innovtion of the Year Awards web site.

2021 Award Nomination

Title of Innovation: **PosiTector Dew Point Meter Logger**
(insert title here—no more than five words)

Nominee(s): **DeFelsko Corporation**
(insert Name[s] and Organization[s])

Web site: **https://www.defelsko.com/positector-dpml**

Summary Description:

The new PosiTector DPM L Dew Point Meter Logger makes it easy for inspectors to track and record environmental conditions on the job site. It magnetically attaches to steel structures to autonomously measure and record relative humidity, air temperature, surface temperature, dew point temperature, and the difference between the dew point and surface temperatures. Using a single battery, it can record readings at user-selected time intervals for up to 200 days. Stored datasets

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Full Description
(Please provide complete answers to the questions below. Graphs, charts, and photos can be inserted to support the answers.)

1. What is the innovation?

The PosiTector DPM L Dew Point Meter Logger magnetically attaches to steel structures to autonomously measure and record relative humidity, air temperature, surface temperature, dew point temperature, and the difference between the dew point and surface temperatures. Using a single coin-cell battery, it can record readings at user-selected time intervals for up to 200 days. Stored datasets can be viewed or downloaded wirelessly via Bluetooth using a PosiTector Advanced gage body or

2. How does the innovation work?

The new PosiTector DPM L uses the latest Bluetooth Technology to wirelessly connect to the PosiTector App (iOS/Android) and PosiTector Advanced models. While connected, the user can download readings automatically, view live measurement data, and identify rising/falling/stable readings with SmartTrendTM indicators.

3. Describe the corrosion problem or technological gap that sparked the development of the innovation. How does the innovation improve upon existing methods/technologies to address this corrosion problem or provide a new solution to bridge the technology gap?

Climatic conditions during surface preparation and coating application are major factors affecting the long-term performance of coatings on steel structures. To effectively monitor and communicate environmental conditions, current solutions require that the user leave a handheld dew point meter with logging capabilities on a surface, unattended, throughout the duration of the project. These instruments are subject to theft, require configuration to enable logging functionality, and their larger size

4. Has the innovation been tested in the laboratory or in the field? If so, please describe any tests or field demonstrations and the results that support the capability and feasibility of the innovation.

The commercially available, PosiTector DPM L Dew Point Meter Logger underwent extensive testing before launch, and has been used on job sites around the world since its debut in December 2019. The environmentally sealed enclosure is weatherproof, dustproof, and shockproof - meeting or exceeding IP65.

5. How can the innovation be incorporated into existing corrosion prevention and control activities and how does it benefit the industry/industries it serves (i.e., does it provide a cost and/or time savings; improve an inspection, testing, or data collection process; help to extend the service life of assets or corrosion-control systems, etc.)?

Users will be able to seamlessly integrate the new logger with their existing PosiSoft software or smartphone application. It allows for continuous monitoring during corrosion prevention and control activities with an extremely simple interface and affordable price.

6. Is the innovation commercially available? If yes, how long has it been utilized? If not, what is the next step in making the innovation commercially available? What are the challenges, if any, that may affect further development or use of this innovation and how could they be overcome?

Yes. The PosiTector DPM L Dew Point Meter Logger is commercially available. Learn more at www.defelsko.com/DPML

7. Are there any patents related to this work? If yes, please provide the patent title, number, and inventor.