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Coating thickness measurement – state of the art:
Paint and corrosion protection measurements using innovative technology

Part 2:

Innovative system-solutions expand the application of coating thickness gauges in the area of corrosion protection

Experts worldwide demand small, practical, and reliable gauges due to the growing international concern regarding standardized inspections of corrosion protection in particular. Modern coating thickness gauges can now be used in various measuring conditions when combined with modular measuring systems, interchangeable probes and innovative technology in the area of transmission, memory and analysis.

Therefore, modularly designed systems providing non-destructive coating thickness measurement have proven to be of particular value when dealing with the inspection of paint and corrosion protection. These systems help users to resolve measuring problems and to achieve different measuring tasks in an excellent manner.

The German company AUTOMATION Dr. Nix in Cologne specializes on precise and easy-to-use hand-held gauges. In close cooperation with users around the world, the company has developed practical and reliable measuring systems offering easy and accurate solutions for the most different types of measuring tasks.

This holds particularly true to the handling, robustness, and precision of the gauges under difficult conditions.

Real life challenges for hand-held gauges

In the long run, even a hand-held gauge may be too bulky or too heavy during long-term practical use – for example when measuring corrosion protection of bridges, ships or large steel structures. A user who has to take a large number of measurements on a vast surface for example, exerts a lot of physical effort and fatigues easily. Measuring errors may sneak in, possibly leading to complaints and complicated re-measurements resulting in increased costs.

Another problem of conventional devices is that although usually relatively small they are still too large when equipped with memory, batteries and display; especially for complicated measurements in close spaces.

While today's cable-connected measuring probes have a measuring tip that is significantly smaller, lighter and more mobile than the actual gauge, thus offering a high degree of flexibility facilitating difficult measuring tasks significantly, the cable-connection between probe and gauge still hinders the user. Such a hindering connection however is a constant source of danger, especially when the user needs at least one free hand to hold on to a handhold, or to climb a ladder or a pylon for example. Wireless measuring probes provide a solution for such problems, increasing work efficiency with their new measurement mobility.

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