

New functions for PHYNIX Surfex Pro X (functions for especially shipyards)

SSPC PA2 mode

SSPC PA2 is a standard developed by the Society for Protective Coatings (SSPC) and describes a procedure for determining conformance to a specified coating dry film thickness on ferrous and non-ferrous metal substrates using nondestructive coating thickness gauges described in ASTM D 7091.

The SSPC PA2 mode is a convenient way to measure coating thickness according the SSPC standard. It can be selected under the menu item "Measuring mode". It is indicated by "PA2" in the display.

In fact SSPC PA2 mode is a kind of block value statistics, with a fixed block size of three values. During measurement all three values of the actual block are shown on the real time display. Additionally the moving average for this block and the mean value of all already completed blocks are shown.

At the beginning of each block the first reading is displayed in the center of the display, after the second measurement the actual reading is displayed there, and the first reading moves one line down, indicated by n1. Finally after the third measurement the last reading is shown in the center, and the two readings before are shown below, indicated by n1 and n2. On the right side of the display \bar{x}_t shows the moving average of the actual block, and \bar{x} the mean value of all blocks.

IMO PSPC 90/10 mode

Measurements according the 90/10 practice refer to the "Performance Standard for Protective Coatings" developed by the International Maritime Organization (IMO).

In this standard the 90/10 practice is defined. It means that 90% of all thickness measurements shall be greater than or equal to a pre-defined nominal dry film thickness (NDFT) and none of the remaining 10% measurements shall be below 90% of NDFT.

The IMO PSPC 90/10 mode supports the user applying the 90/10 rule. It can be selected under the menu item "Measuring mode". This mode is indicated by "90/10" in the display.

In 90/10 mode the gauge determines after each measurement whether both conditions of the rule are fulfilled. In this case the display shows "GOOD". Otherwise if one or both conditions are not fulfilled it shows "FAILED". The procedure is as follows: After selection of the IMO PSPC 90/10 mode you first have to set the nominal dry film thickness by means of the arrow keys (setting) and the OK key (confirming). Subsequently the display shows five values: the NDFT and the number of readings greater than or equal to this value; the line below shows the thickness value (0.9 x NDFT) as well as the number of thickness values lying between (0.9 x NDFT) and NDFT. At the left side of the display the total number of readings N can be seen.

If only condition 1 (more than 10 % of readings are lower than NDFT) is not fulfilled it is still possible to achieve a "GOOD" measurement series. Therefore the number of readings higher than NDFT have to be increased. If condition 2 (none of the measurements should be below 0.9 x NDFT) is not fulfilled it is no more possible to achieve a "GOOD" measurement series. You can recognize this situation if the total amount of readings (N; left side) is higher than the sum of both amounts (NDFT, 90%; right side).