



TM puriSCOPE - EASY QUALITY CONTROL FOR BEVERAGE LINE HYGIENE

TM puriSCOPE IS AN ELECTRONIC MOBILE "INSPECTOR" TO MEASURE INSTANTLY THE HYGIENIC CONDITION OF ALL NON-ACCESSIBLE INTERNAL SURFACES OF BEER LINES OR BEVERAGE PRODUCTION LINES. THE VALUES IT DELIVERS HELP TO ENSURE PERFECT PURITY OF THE LINES AND PROTECT THE QUALITY OF THE BEVERAGE.

To verify lines with TM puriSCOPE you need 2 components: The colour changing THONHAUSER indicator substance (TM DESANA MAX or TM SMART ADD 12) and TM puriSCOPE to "read" the color.

The indicator substance goes everywhere the beverage goes and changes its colour from purple to green and yellow if residual organics were present in the line. Each colour corresponds exactly to a certain level of clean. TM puriSCOPE comes with an iPod Touch that takes a picture of the indicator substance and translates its colour into numbers. That way you get a real time measurable evaluation of the hygienic condition of the entire line. Results are displayed in μg organics per cm^2 inner surface as well as in mg organics per liter of indicator solution.

3 EASY STEPS TO REAL TIME VERIFICATION OF CLEAN



To manage data, simply tag results with the corresponding contact information of the outlet from the iPod address book, add date and notes, and email a presentable written report in no time. All at your finger tips, right while you are on site.

PRODUCT FEATURES

- Real time hygiene control + reporting: It makes visible what wasn't visible before and provides results as presentable reports
- Indicator solution reaches ALL inner surfaces: It goes where swabs never would reach and reveals all organic residue
- Detects and measures even small amounts of organics, allows customized interpretation of results (set your own pass/fail levels)
- Green technology of indicator: No chlorine, no surfactant, no bulky waste



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COMPONENTS OF TM puriSCOPE

- TM puriSCOPE app
- iPod Touch
- tools to collect cleaning sample (samples of TM DESANA MAX, two sampling bottles, light panel, safety gloves and goggles, pH-test strips and a handy board that functions as sampling platform) as well as a protective carrying bag



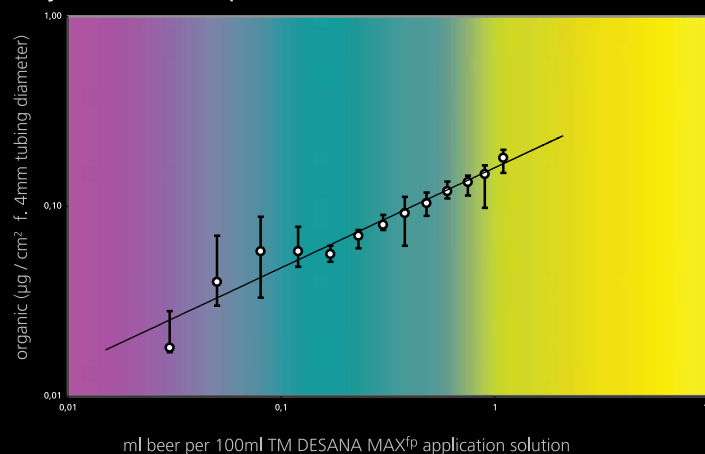
ADVANTAGES

- Ensures clean lines to guarantee pure enjoyment of the beverage at its finest quality, consumer safety and brand protection
- Saves time and money: verify your cleaning routines and ensure efficient cleaning process and amount of chemicals needed
- Is a handy, easy and safe to use tool that's always at your fingertips; no microbiological training necessary
- Measures + reports right on the spot: Results are generated in real time, no waiting time
- Be on the edge of technology: THONHAUSER has more than 30 years of expertise in beverage hygiene science

COLOR CORRELATION

Each color of the indicator substance (graphic showing TM DESANA MAX colors) correlates exactly to a specific amount of organics.

TM puriSCOPE translates these colors and provides an easy-to-read interpretation:






RESULT - CATEGORIES

The smaller the tubing diameter of the verified dispensing system the more progressive the coloring of the indicator substance (e.g. TM DESANA MAX FP) will be. Irrespective of the color of the solution you can categorize your verification-results with TM puriSCOPE.

You can adapt the $\mu\text{g}/\text{cm}^2$ - thresholds of the 3 categories as needed and simply change the respective settings in the "OPTIONS"-menu of TM puriSCOPE.

However to give you an initial guideline we have set the following default-values which we have obtained as a result of year-long field-experience.

-  0 - 0,10 $\mu\text{g}/\text{cm}^2$
-  0,10 - 0,26 $\mu\text{g}/\text{cm}^2$
-  > 0,26 $\mu\text{g}/\text{cm}^2$