

HI727

Color of Water

Handheld Colorimeter

- Easier to use and more accurate than chemical test kits
- Dedicated to a single parameter
- Small size, big convenience
- Ideal for water quality

True color is caused by dissolved compounds in water and can be both natural or artificial. Apparent color is caused by both dissolved and suspended solids. Color is measured in Platinum-Cobalt units (PCU). The AWWA recommends ≤ 15 PCU.

The term "true color" is defined as the color of water from which turbidity has been removed. The term "apparent color" includes not only color due to substances in solution, but also color that is due to suspended matter. Apparent color is determined on the original sample without filtration or centrifugation. In some highly-colored industrial wastewaters, color is contributed principally by colloidal or suspended material. In such cases, both true color and apparent color should be determined.

To determine true color, turbidity must be removed before analysis. Methods for removing turbidity without removing color vary. Filtration yields results that are reproducible from day to day among laboratories, however, some filtration procedures may also remove some true color. Centrifugation avoids interaction of color with filter materials, but results vary with the sample nature, size, and speed of the centrifuge. When sample dilution is necessary, whether it precedes or follows turbidity removal, it can alter the measured color. Acceptable pretreatment procedures are included with each method. The pretreatment method should be stated when reporting the results.

The HI727 Checker®HC is very simple to use. First, zero the instrument with deionized water. Next, prepare the sample according to the Apparent/True color measurement. Place the second vial with prepared sample into the Checker HC, press the operational button and the HI727 Checker® displays the color of water in PCU.



| Specifications | HI727 |
|----------------------|---|
| Range | 0 to 500 PCU |
| Resolution | 5 PCU |
| Accuracy @ 25°C/77°F | ± 10 PCU $\pm 5\%$ of reading |
| Light Source | LED @ 470 nm |
| Light Detector | silicon photocell |
| Environment | 0 to 50°C (32 to 122°F); RH max 95% non-condensing |
| Battery Type | (1) 1.5V AAA |
| Auto-off | after ten minutes of non-use |
| Dimensions | 86.0 x 61.0 x 37.5 mm (3.4 x 2.4 x 1.5") |
| Weight | 64 g (2.3 oz) |
| Method | adaptation of the Standard Methods for the Examination of Water and Wastewater, 21st edition, Colorimetric Platinum Cobalt method |
| Ordering Information | HI727 Checker®HC is supplied with sample cuvettes with caps (2), battery, instructions and quick start guide. |
| Calibration Set | HI727-11 |

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