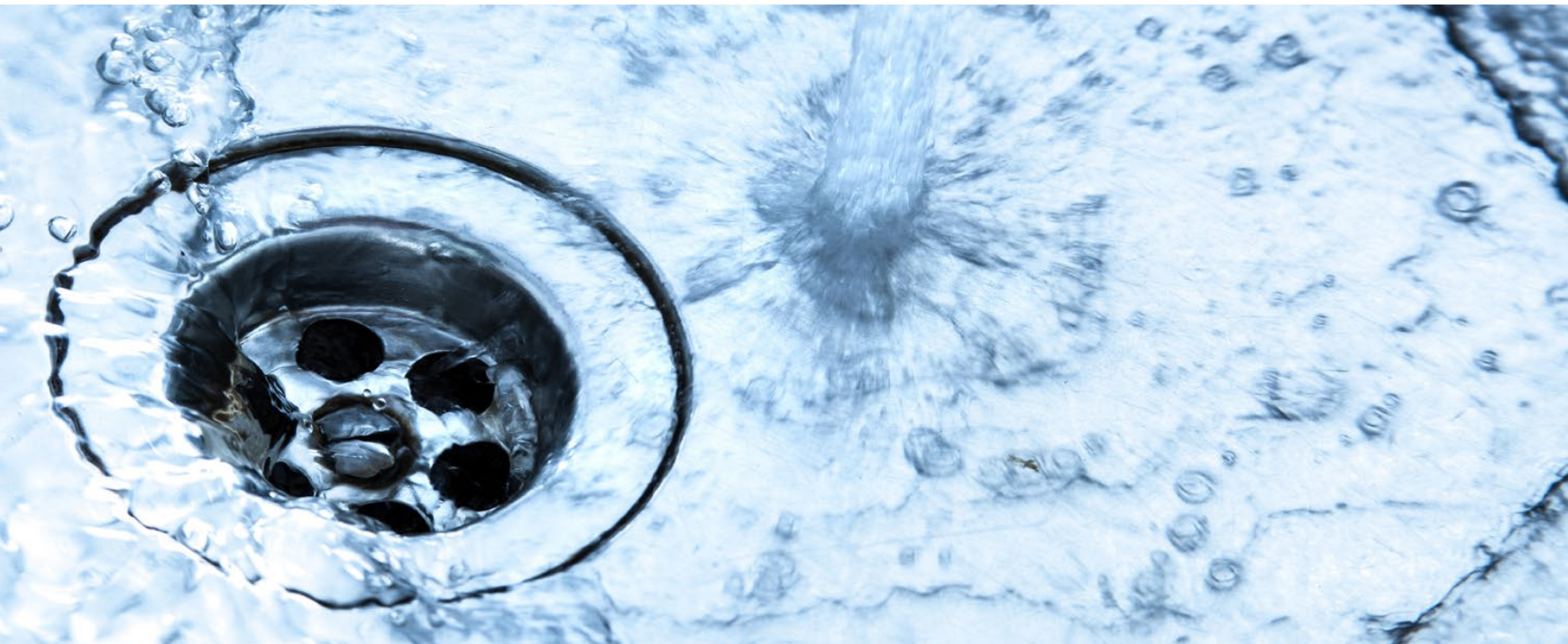


PLATINUM-COBALT COLOR ANALYZER

Platinum-Cobalt (Pt/Co) / Hazen / APHA color scale



QUALITY CONTROL

PROCESS MONITORING

REGULATORY COMPLIANCE





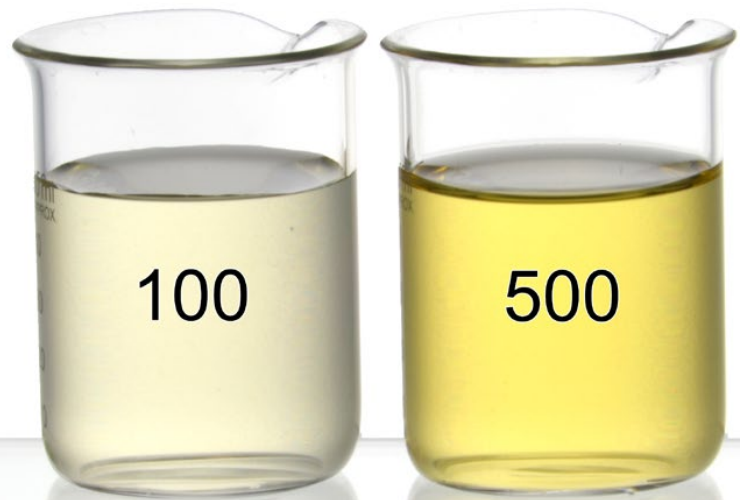
COLOR DETECTION

BENEFITS


- 01 / Direct real-time, high resolution measurement of liquid color. Suitable for water, acids, solvents, and a diverse range of industrial chemicals.
- 02 / Platinum-Cobalt (Pt/Co) / Hazen / APHA color scale according to ASTM D1209, ISO 6271-1, DIN 53409 and BS 5339:76.
- 03 / No maintenance. Lifetime guarantee on the light source.
- 04 / Robust & chemically resistant measurement cells for a wide range of applications.
- 05 / No recalibration required. Factory-calibrated and effortless validation using a traceable validation accessory.



The Kemtrak Platinum-Cobalt color analyzer with in-line measurement cell can instantly detect minute changes in color, even what is beyond the sensitivity of the human eye. With precise in-line measurement, operator interpretation errors are eliminated, resulting in improved product quality.



The Platinum-Cobalt (Pt/Co) color scale measures the “yellowness” of a liquid and is well suited for quality control and contamination detection.



Color represents our brain's response to different wavelengths of light. Recognition of color by the human eye is highly subjective and influenced by several factors such as lighting conditions, surrounding colors, and even the age of a person. Automating reliable color identification is achievable using the Kemtrak Platinum-Cobalt color analyzer.

The Platinum-Cobalt scale, also known as Hazen and APHA, originated as a visual indicator for water purity in public supplies, where a faint yellow tint indicates natural organic and metal ion contaminants. Filters are routinely employed to remove these contaminants and Kemtrak color analyzers monitor and automate the filtration stages to assure colorless drinking water.

The Platinum-Cobalt color scale is specific to the color yellow and is based on dilutions of a 500 ppm

platinum-cobalt solution. The color scale ranges from 0 to 500: the lowest value of 0 is colorless, while the value of 500 is distinctly yellow.

Today, this color scale serves various industries as a purity metric, detecting trace yellowness as a result of light degradation or heat exposure, impurities, and processing impacts. It facilitates quality control and contamination detection.

The Kemtrak Platinum-Cobalt color analyzer is an industrial LED light photometer, precisely measuring liquid color in Platinum-Cobalt color units (PCU). Dual-wavelength technology assures accurate detection of minute to intense color variations. The primary “absorbing” wavelength mimics human eye perception, while a secondary wavelength, unaffected by sample color, compensates for optical window fouling and turbidity.

APPLICATIONS





01 /

Water

The Kemtrak Platinum-Cobalt color analyzer is routinely used to monitor organic and metal ion contamination in potable water, and to control filtration processes that remove color.

02 /

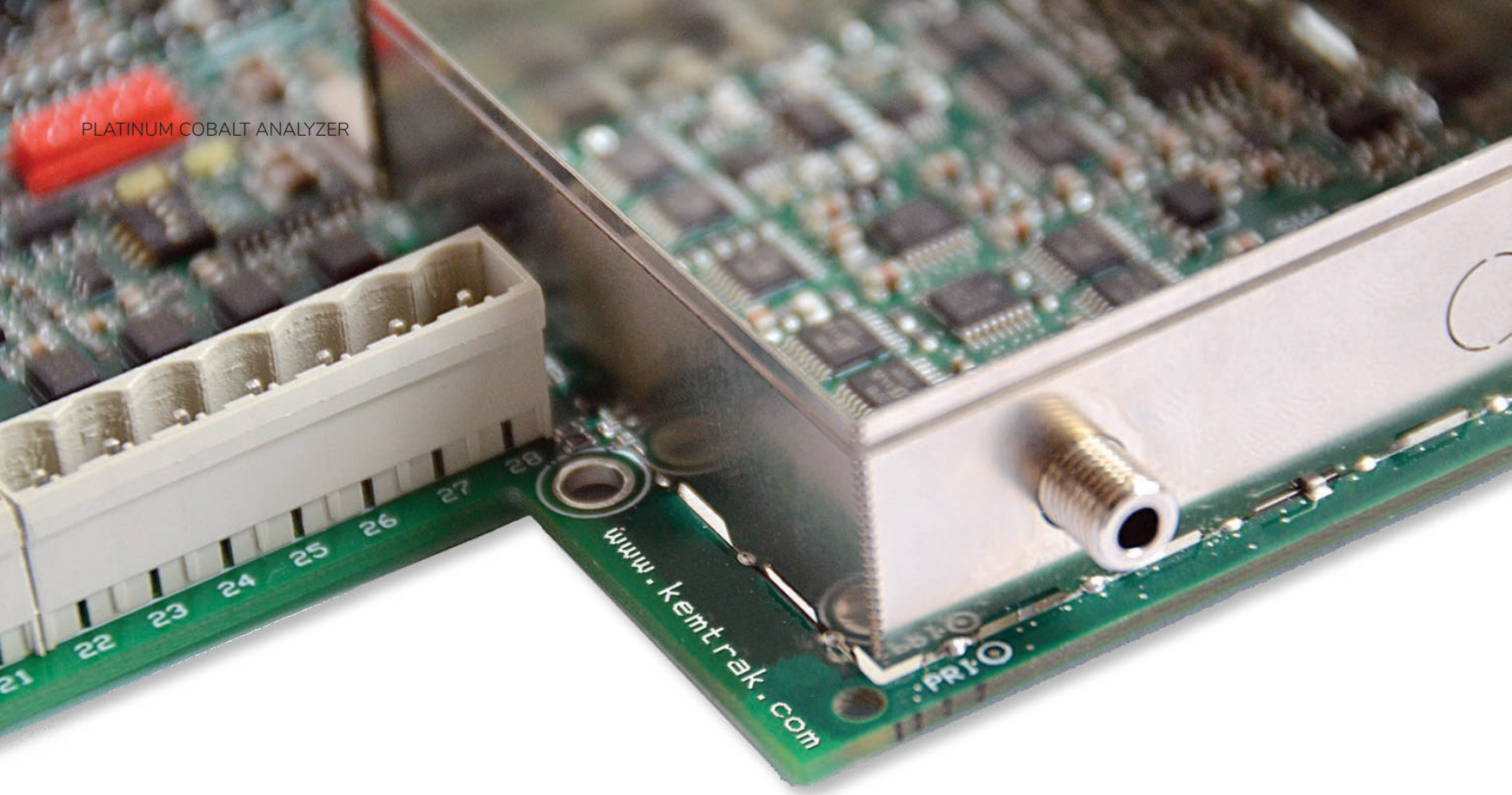
Chemical Industry

The Kemtrak Platinum-Cobalt color analyzer serves as a vital tool for monitoring color variation in diverse chemical compounds, including alcohols, solvents, resins, acids, polymers, and fuels. It aids in determining the purity, quality, and consistency of these compounds.

03 /

Environment

The Kemtrak Platinum-Cobalt color analyzer is used to monitor wastewater and runoff from industrial facilities. In water treatment plants, it can help in monitoring the effectiveness of treatment processes by tracking color changes in water samples.



ABOUT KEMTRAK

Founded in 2006, Kemtrak is the industry leader in LED-based industrial photometers. Low optical power and long lifetime provide dependable products with the highest performance and lowest cost of ownership available.

The Kemtrak 007 analyzer platform is a robust industrial analyzer designed to accurately measure and report specific properties of liquids and gases in-line and in real time. Based upon either absorbance, light scatter, or fluorescence, Kemtrak photometers are used in a wide range of industrial applications for measuring parameters like color, concentration, turbidity, and solids concentration.

Kemtrak is located in Stockholm, Sweden. Kemtrak products are distributed globally. No

matter where you are in the world, Kemtrak has a motivated team of skilled engineers ready to help.

- Industrial liquid and gas concentration measurement
- Real-time, in-line
- State of the art with exceptional performance
- Low cost of ownership:
 - No / ultra-low maintenance
 - Long life LED light source
 - Robust and reliable
- Application experience and know-how
- Global sales and support
- ISO 9001:2015 Quality System

At Kemtrak, we believe efficient manufacturing processes are essential for a sustainable world. Our products empower our customers to increase profits by preventing or limiting waste. Kemtrak analyzers provide insight into the process enabling resources to be conserved, waste minimized, energy reduced, and harmful leaks detected.

Kemtrak technology delivers tangible, measurable, and substantial benefits. We help our customers make the transition to a greener future through process optimization.

Our philosophy is to focus on areas that are beneficial for people and the planet, and Kemtrak supports the societies where we conduct business. By leveraging the latest and greenest technologies, we ensure we are doing our best to create a more sustainable process industry for the coming generations.



TYPICAL APPLICATIONS:

1. **Gas Scrubber Optimization:** Kemtrak photometers continuously monitor exhaust gases such as ClO_2 and Cl_2 to limit harmful emissions and loss of product into the environment.
2. **Leak Detection:** Continuous monitoring of leaks is an essential part of any process and Kemtrak analyzers provide ultra-low (ppb) levels of detection.
3. **Distillation Optimization:** Reduce energy consumption in distillation processes through real time measurement of tray & distillate concentration.
4. **Centrifuge Control:** Kemtrak turbidimeters optimize separators used to remove SO_2 and particulates from wet scrubbers that clean marine exhaust gas.
5. **Interface Detection:** Kemtrak analyzers minimize product loss, process downtime, and waste through precise interface control, ensuring consistent performance at any concentration.

OUR APPROACH:

Eco-Friendly Products: Kemtrak products have a no/ultra-low service and maintenance requirement, helping companies lower their ecological footprint and reduce costs. Our products are mercury-free, comply with RoHS directives, and are made from durable materials like stainless steel.

Minimizing Carbon Footprint: Kemtrak promotes environmental awareness, has energy-efficient facilities with eco-friendly electricity, recycles waste, and encourages remote meetings and responsible travel.

Research & Development: Kemtrak invests in sustainable technologies and practices, and develops products used to create a more sustainable process industry.





Kemtrak AB
Polygonvägen 45
187 66 Täby
Sweden

Phone: +46 10 511 0700
Email: sales@kemtrak.com
Website: www.kemtrak.com

