Anton Paar

Tank Terminal Analysis Solutions

Tank Terminals Overview

Be Efficient.
Be Confident.
Be in Control.

Our broad portfolio of instruments for tank terminals – from portable devices for hazardous areas to precise lab and inline equipment – lets you build a 24/7 lab base and perform key tests in minutes.

React fast and maximize your throughput by measuring on-site or inline

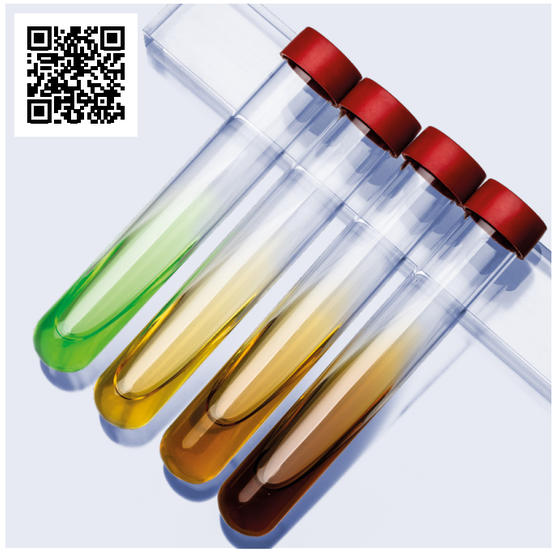
Store products safely by testing optimal storage conditions

Certify your products according to standard specifications

Save time – up to 50 % – and eliminate operator influence by replacing your traditional methods

Reduce waste and limit your environmental impact by using small sample and solvent volumes

Crude oil analysis
Optimize the flow behavior of traded crude oil and ensure good pumpability for transport.



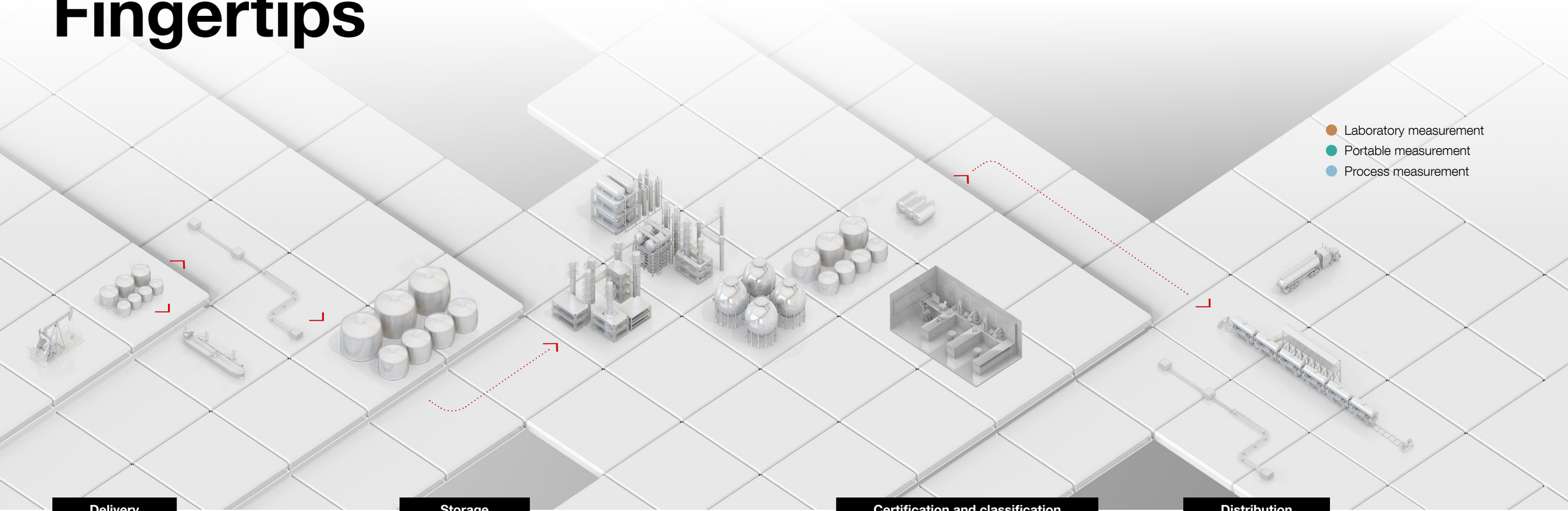
Fuel analysis
Avoid accepting low-quality fuels and keep tight financial control by minimizing the mass balance error.

Lubricant analysis
Conduct quick blending checks and save money through fast turnaround times at the filling line, which reduces the amount of lubricant that goes to waste.

Bitumen and asphalt analysis
Determine the flammability or elasticity of your asphalt and bitumen products, and investigate stabilization effects of emulsifiers or additives.

Quality at Your Fingertips

Be sure of the quantity and quality of products moving through your tank farm. Make quick decisions and avoid accepting faulty goods. Gain clarity on outgoing products, prevent mix-ups, and cut operational costs.



Delivery

Density, viscosity, rheological properties

- → Fine-tune product composition of crude oils for good pumpability
- → Avoid accepting faulty products
- → Close valves promptly and stop pumps for exact product separation
- → Keep mix-ups in multiproduct pipelines low
- → Reduce your product loss and waste treatment costs
- → Save time by performing tests on-site or inline

Storage

Density, viscosity, refractive index, distillation, oxidation stability, flash point, fire point, rheological properties, molecular spectroscopy

- → Detect fuel degradation and contamination quickly
- → Simulate and assess storage behavior of final products
- → Ensure maximum safety by performing a hazard classification
- → Quickly monitor the dewatering process of fuels for exact separation
- → Conduct blending checks and final product control

Certification and classification

Density, viscosity, distillation, flash point, fire point, oxidation stability, gum content, cold flow properties, particle size, penetration, rheological properties

- → Create product datasheets and release them for sales
- → Define hazard class for maximum safety during storage and transportation
- → Facilitate account settlement for bitumen and asphalt: Conduct SG analysis at up to 200 °C

Distribution

Density, viscosity, flash point, rheological properties

- → Determine exact mass of products entering and leaving to minimize mass balance error
- → Effectively fill or unload lubricant barrels
- → Ensure correct allocation of product to transport vehicle
- → Conduct volume to mass conversion for precise account settlement and airplane fueling

Upgrade Your Analytical Capabilities

Our instruments meet international standards and remove operator influence, reliably ensuring accuracy. Store data safely on the instrument or use AP Connect, streamlining and centralizing all data, regardless of instrument vendor, in one digital space.

L-Dens 7300/7400
Both process density sensors provide highly accurate real-time density measurements for converting volume to mass, minimizing mass balance errors, and ensuring rapid product identification in multi-product pipelines, giving you continuous quality control.

L-Cor 8000
Our Coriolis flow meters enable traceable and compliant measurements in custody transfer applications. Full compliance with OIML R 117-1 and certification according to ISO/IEC 17025 ensure the accuracy and integrity required for fiscal metering in any industry.

SVM 1001
The SVM 1001 covers the entire relevant viscosity and temperature range with one durable metal cell – no fragile glassware. This ASTM D7042-compliant viscometer delivers results in both D7042 and D445 (bias-corrected) in under five minutes from less than 5 mL of sample. One cell replaces up to 12 Ubbelohde viscometers, offering market-leading performance at a budget-friendly price for diesel, biodiesel, and heavy fuel testing.

DMA 35 Ex Petrol
DMA 35 Ex Petrol is the only intrinsically safe portable density meter for quick and reliable product identification according to ASTM D7777 – even in hazardous environments. In contrast to hydrometers, this instrument covers the whole density range for all your products and gives you results 10x faster.

DMA 1002
The compact density meter DMA 1002 verifies product specifications according to ASTM D4052 and D5002 outside the traditional lab. It is the most advanced four-digit density meter in its price class, offering two syringe-filling positions for user-friendly operation. External influences don't affect the stable measuring technology, so you can place the instrument in a mobile lab or near a sampling location.

Xsample 530/630 + DMA 4002/5002 / SVM 3001
The high-throughput sample changers, Xsample 530 for up to 71 fuel samples and Xsample 630 with 36 positions for heavy samples, fully automate your lab density and viscosity meters. DMA 4002 and DMA 5002 give you the highest throughput rates when certifying your products according to ASTM D4052. With DMA 5002, enhance your volume-to-mass conversion. Or, if you need to conduct additional measurements of viscosity according to ASTM D7042 for petroleum samples, upgrade your SVM 3001.

Diana 700
Used for distillation analysis according to ASTM D86, Diana 700 determines at which temperatures evaporation losses occur and whether liquid petroleum products meet the desired safety classification (i.e., boiling behavior). With efficient Peltier technology, reach required temperatures for various distillation groups in less than five minutes.

PMA 500
With the PMA 500 flash point tester, define the hazard classification of fuels, which is crucial for safe storage and transport. Its unique, ceramic-coated electric igniter reduces operational costs and has a life span that's 10x longer compared to a traditional igniter. Its cooling technology reduces measurement times by 10 %.

AP Connect
Our laboratory execution software is one secure hub for all lab data, connecting instruments from Anton Paar and other vendors. Seamless LIMS integration ensures error-free data flow and compliance, with seamless transfers. Automated measurement scheduling and execution reduces operational costs.

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