

BENKE Rapid Distillation Process Analyzer rapiDist-4

Credible Solutions for the Oil and Gas Industry



Analyzer rapiDist-4

To remain competitive, today's refiners must employ all optimization and product control techniques available. The use of online physical property analyzers is one of the key features to reach those objectives because they measure important quality properties in the process directly.

Distillation is a physical method of separating

the component substances from a liquid mixture by selective vaporization and re-condensation.

Distillation is based on differences in volatilities of the components of the liquid mixture. The distillation curve is one of the most common quality parameters of liquid hydrocarbons such like naphtha, gasoline, kerosene, diesel and gas oil.

- Cycle time 10 to 15 minutes (for diesel 10 min. and for gasoline 15 min.)
- Results within ASTM D86 requirements
- Measuring points from IBP to FBP, free programmable
- Core components meet ASTM D86 design
- Optical level measurement for dosing unit and receiver

Application

The BENKE rapiDist-4 Analyzer is designed for fast process control of atmospheric distillation columns, blending processes as for all types of middle distillates, feedstock for petrochemical processes (naphtha), jet fuels, fuel oils, diesel fuels, similar petroleum products and liquid hydrocarbons.

No matter if refinery or remote terminal sites for blending, the rapiDist-4 provides results according to ASTM D86 requirements in the shortest time possible for physical property measurement.

Changes in sample recipes or matrix will be visible almost instantly and allow for optimizing the profit.



Special Features

The complete boiling curve is possible

Measuring points of interest freely definable by software

Cycle time reduction

Enhances automatic control of blending processes

De-coking

Available communication interfaces:

- Modbus /RTU, Modbus/TCP (bidirectional)
- Remote access via Ethernet (VDSL or FOC is)

Integrated failure diagnosis and self monitoring

Validation report for quality assurance

Freely programmable digital and analog inputs

Norms and Standards

Correlating with:

- ASTM D86
- DIN EN ISO 3405
- IP 123

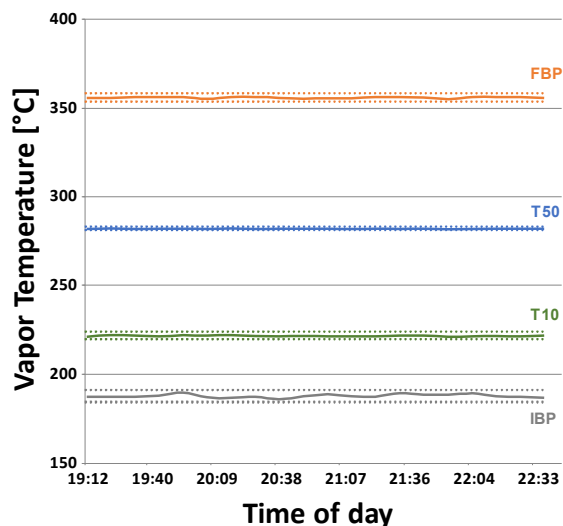


Fig.1 Results from a refinery diesel unit. Repeatability limits according to ASTM D86 are marked with dotted lines.

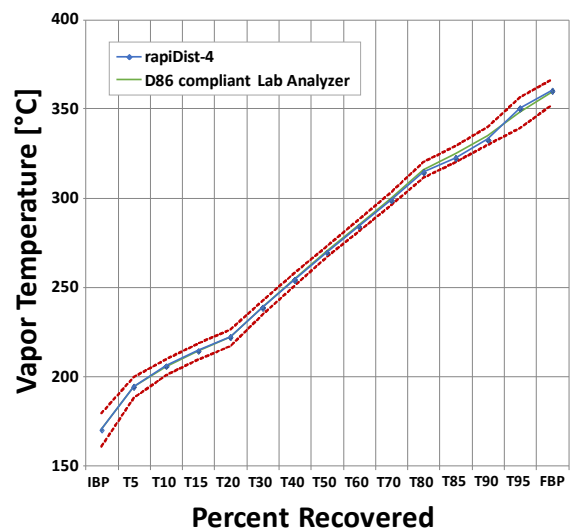


Fig. 2 Outstanding reproducibility and correlation of the rapiDist-4 with an ASTM D86 compliant laboratory analyzer. Repeatability limits according to ASTM D86 are marked as dotted lines.

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