



ACE INSTRUMENTATION



KAM® OWD® OIL WATER DETECTOR

API COMPLIANT



PTB 08
ATEX 1026



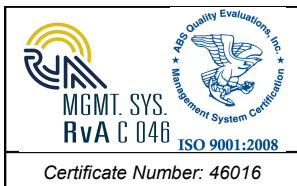
KAM® OWD® FT



KAM® OWD® INSERTABLE



KAM® OWD® SPOOL



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KAM® OWD® OIL WATER DETECTOR

With **1% of full scale accuracy regardless of range**, the rugged KAM® OWD® Oil Water Detector is the ideal instrument for monitoring water concentrations in a variety of applications from production to refinery. The OWD® detector offers continuous, real-time data for net oil and net water, plus the conductivity, dielectric, and both real and imaginary parts of permittivity of the fluid. The patented three-antenna design **reads both oil continuous and water continuous modes simultaneously and automatically transitions between the two**. The OWD® can also be calibrated to correct for the effects of salinity. Measurement is fully automatic with no need for operator intervention or supervision.

The KAM® OWD® detector also uses internal references to **auto calibrate** for drift caused by temperature changes of the electronics, the aging of the electronics components, fluid pressure, and fluid temperature.

The **simplicity of design** and quality of engineering employed in the OWD® detector mean there are no moving parts. The KAM® OWD® is the only water cut meter available with all the requisite electronics incorporated into the unit itself. The output signal can be sent to Flow Computers, SCADA, PLC's or to a Central Control Room for logging or display on chart recorders or monitors.

The **four available models** include the OWD® Insertable sensor which can be inserted directly into your pipe or tank through a hot tap, helping you avoid costly drainage, the need for a bypass loop, or having to cut a section in the pipe. The KAM® OWD® FT Flow Through model can be used in an analyzer/densitometer loop, for process optimization where an accurate determination of water concentration is important. It is also vital to optimizing the desalinization process. The KAM® OWD® Spool is designed for well-head applications and includes a KAM® SMST™ Static Mixing Spool and an integrated sample valve.

KEY KAM® ADVANTAGES

- Automatic temperature correction
- Pressure rated up to ANSI 2500
- All requisite electronics housed within unit (can also be mounted remotely) and included in unit price
- Negligible pressure drop with insertable model

PATENTED 3-ANTENNA DESIGN

- Automatically corrects for effects of density
- Automatically detects transitions between oil continuous and water continuous modes and monitors both modes simultaneously

MULTIPLE APPLICATIONS

- Continuous production management, optimization and automation
- Refinery: incoming crude stream, feedstock, desalter optimization (KAM DOS)
- Custody transfer: marine, truck, and LACT unit
- Crude batching
- Well head: automatic well test, multiphase separators

HEAVY OIL SUPERIORITY

- Fluid temperature to 315°C
- 1% of full scale accuracy
- No salinity offset required



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