Red Eye®

SUBSEA WATER-CUT METER

Precision Flow Data for Continuous Optimization

Red Eye subsea water-cut meters provide accurate water-content measurements for ideal production monitoring, measurement, and optimization. Designed to handle harsh, ultra-deepwater environments and deliver pinpointed quantifications for all hydrocarbon wells, Red Eye presents a step-change in subsea water-cut detection and is a vital component to virtual metering—creating the industry's first stand-alone subsea water-cut meter and ultimate multiphase-support redundancy.

With its patented, near-infrared (NIR) light-sensing technology, Red Eye water-cut meters measure the full range of water cut in real time—distinguishing water, oil, and hydrate inhibitors—regardless of salinity, solids, H_2S, CO_2, emulsions, or impurities. Unlike other water-cut meters, Red Eye requires no corrections for any change in fluid content, creating and affordable solution for monitoring individual or multiple-well assets.

POWERFUL MULTIPHASE SUPPORT AND SAVINGS

70% less OPEX and 60% less CAPEX per well

Most sensitive water onset detection

Near infrared (NIR) sensitivity

SOUTH CASPIAN SEA

SAVED $12M CAPEX

ELIMINATED MPFMs ON 18 WELLS

MEDITERRANEAN SEA

SAVED $2M ANNUAL OPEX

REDUCED MEG RECYCLING 90%
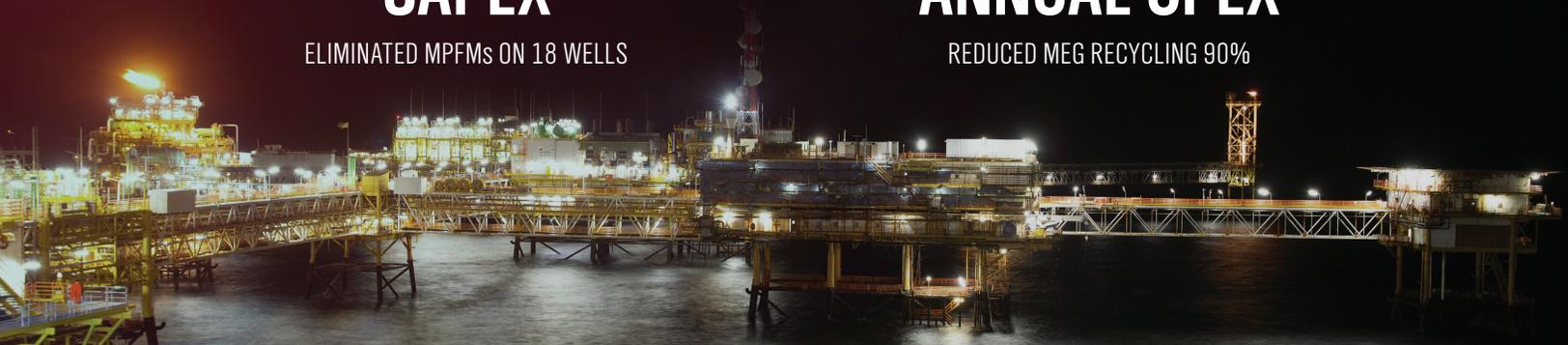
PRODUCE WITH PRECISION

INSTANTLY AND CONTINUOUSLY MEASURE THE FULL RANGE OF WATER CUT

EMPOWER TRUE RESERVOIR INSIGHT

Instantly and continuously produce the full range of water cut.

SIMPLIFY AND SPEND LESS

Continuous water-cut accuracy optimizes efficiency, saves operational costs, and reduces seafloor footprint.

ADVANCE TO PRODUCTION 4.0

End-to-end solutions maximize production, reduce downtime, and enhance personnel efficiency.

Near infrared (NIR) sensitivity
Instantly distinguish between water, oil, methanol, and glycol in the full range of water cut and full range of GVF—regardless of salinity, chemistry, solids, impurities, H_2S, CO_2, emulsions, and polymers.

In-line water-hydrate inhibitor measurements
Includes water-methanol concentrations that are extremely useful in the optimization of hydrate-injection processes.

Most sensitive water-onset detection
Integrated optical channel is extremely sensitive, which enables direct measurements within minute concentrations of water.

Continuous measurement accuracy
Assess reservoir behavior with real-time water-cut monitoring for optimized production strategies, pinpoint reporting, and reduced artificial-lift costs.

70% less OPEX and 60% less CAPEX per well
Multiphase-support redundancy eliminates the need for dedicated topside equipment, frequent human interventions, and onsite calibrations.

Simplified engineering
Eliminates hand-sampling inconsistencies and intermittent data for improved HSE risks by limiting personnel exposures to high temps, high pressures, and sour gasses.

SIIS system (Subsea-Instrumentation Interface Standardization)
Provides level-2 or level-3 communications that include onboard raw-data storage with remote firmware support.

Exclusive installation flexibility
Provides functionality at the wellhead or downstream for individual-or-group well monitoring, testing, and water-breakthrough detection.

Unprecedented flow intelligence
ForeSite Flow delivers full-range multiphase insight with real-time, split-second accuracy—all without a test separator or a nuclear source.

End-to-end production solutions
Leverage global expertise and everything needed to diagnose and repair common production issues for all artificial-lift systems.

Instant subsea digital intelligence
ForeSite® Sense provides real-time monitoring data that drives profitability for any well—with any lift, in any environment.

Enterprise-level optimization
ForeSite production optimization helps maximize performance throughout any well, reservoir, or surface facility.

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