# Kam<sup>®</sup> LRW<sup>TM</sup> Low Range Watercut meter





The KAM® LRW™ uses
AnyDensity™ technology to
automatically compensate\* for
changes in density across the
entire range of API gravities.

### **KEY FEATURES**

- Patented microwave resonance technology
- AnyDensity<sup>TM</sup> density compensation for full API gravity range\*
- Automatic temperature correction
- Highest accuracy available: ± 0.03%
- Spool and insertable models available for maximum installation flexibility
- Local display
- All parts and assembly made in the USA

A superior option to traditional BS&W technologies, the patented KAM® LRW™ Low Range Watercut meter offers the high accuracy and repeatability of microwave measurement in a package specifically designed for custody transfer and other low range applications.

Unique to the LRW<sup>™</sup>, AnyDensity<sup>™</sup> technology allows the instrument to compensate for any change in density across the entire API gravity range.\* This is paramount in situations where a single truck or rail unloading site could see swings in API gravity from the 20's to the 60's.

The patented and proven microwave technology used in the LRW™ provides industry-leading accuracy – as low as ±0.03% on 0-3% models. And high quality components made and assembled entirely in the USA provide reliable and consistent performance for long-term use. Plus the unit can easily be calibrated in line.

With insertable and spool/flow through models, the LRW™ also offers installation flexibility that no other unit can match. Spools can be custom fabricated for lines 1-4" and lengths 21" and above. Spools also incorporate static mixing elements to ensure a homogenous flow and manual draw-off valves key for calibration and verification. And fixed-insertion models only require enough vertical pipe for a 1.25" NPT or flanged process connection, saving valuable vertical space on LACT units.

\* requires density input

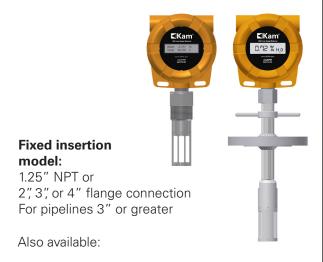
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## Flow through spool model:

2", 3" or 4" flanged flow through spool Includes static mixer and manual draw-off valve Standard spool length is 32" (812 mm) Minimum spool length is 21" (533 mm)



### Insertable/retractable model:

2" MNPT\*; 2", 3", or 4" flanged seal housing

## **SPECIFICATIONS**

Media: Crude oil, water, and refined products

Material: Wetted parts–316 SS\*, hastelloy, & PEEK

(Other materials available)

Electronics enclosure–Copper-free aluminum

Fluid temp: 32° F to 176° F (0° C to +80° C)

Ambient temp: -4° F to 131° F (-20° C to +55° C)

Power requirements: 24 VDC

Power consumption: 12 watts

Available ranges: 0-3%, 0-5%, 0-10%

Accuracy: +/- 0.03% up to 3% water

+/- 0.05% from 3-5% water +/- 0.1% from 5-10% water\*

Repeatability: +/- 0.01%

Resolution: +/- 0.01%

Minimum water detection: 100 ppm

Outputs/serial ports: 4–20 mA

Alarm relay RS232 ASCII RS485 Modbus

Density Correction: AnyDensity<sup>™</sup> compensates for

changes in fluid density across

entire API gravity range (requires density input)

Temperature Correction: Automatic

Pressure ratings: ANSI 150, 300, 600, 900

Flow conditions: Well mixed in accordance with

KAM recommendations

\* Seal Housing for 2" MNPT Models are Carbon Steel.

### FOR MORE INFORMATION ON KAM PRODUCTS

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