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™, AnyDensity™ 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
Kam® LRW™
Low Range Watercut meter

SPECIFICATIONS

Media: Crude oil and refined products
Wetted parts: 316 SS, hastelloy, & PEEK
(Other materials available)
Fluid temp: To 176º F (80º C)
Electronics temp: -4º F to 131º F (-20º C to +55º 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™ 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 API MPMS Chapter 8.2

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)

Fixed insertion model:
1.25" NPT or 2", 3", or 4" flange connection
For pipelines 3" or greater
Also available:

Insertable/retractable model:
2" MNPT, 2", 3", or 4" flanged seal housing

FOR MORE INFORMATION ON KAM PRODUCTS

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