



**KAM® LRW™**  
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™ density compensation for full API gravity range\*
- Automatic temperature correction
- ±1% full scale accuracy
- Spool and insertable models available for maximum installation flexibility
- Local display
- Up to ANSI 900

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 1-3" 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 insertable models can be installed on a T on any line 2" and above.

\* requires density input



**Flow through spool model:**

1", 2" or 3" 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:**

2", 3", or 4" flange

Also available:

**Insertable/retractable model:**

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

**SPECIFICATIONS**

Media:	Crude oil and refined products
Wetted parts:	316 SS, hastelloy, & PEEK (Other materials available)
Fluid temp:	T <sub>o</sub> 300° F (149° C)
Electronics temp:	-40° F to 158° F (-40° C to +70° C)
Power requirements:	24 VDC/1 amp at 24 watts
Available ranges:	0-3%, 0-5%, 0-10%
Accuracy:	1% of range (±0.03%, ±0.05%, ±0.10%)
Repeatability:	+/- 0.01%
Resolution:	+/- 0.01%
Minimum water detection:	300 ppm (0-3% models)
Outputs/serial ports:	4-20 mA (2) 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

**FOR MORE INFORMATION ON KAM PRODUCTS**

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KAM CONTROLS IS AN ISO 9001 CERTIFIED COMPANY