Kam Controls Incorporated®
simple precision™

KAM® UFM™ INSERTABLE

KAM® UFM ™ ULTRASONIC FLOW METER

KAM® UFM™ Ultrasonic Flow Meters provide highly accurate flow measurement in a full range of liquids. Because they have no moving parts, viscosity and varying flow rates won't affect their accuracy–nor will slippage. And they won't suffer from the mechanical deterioration or sensor wear experienced with many conventional flow meters.

Over a decade of research has gone into the KAM® UFM™ flow meters' sensor head to minimize electrical interference and completely eliminate mechanical noise. This allows KAM® UFM™ flow meters to **operate over a very large flow range** (100 to 1 standard turn down ratio) with an output that is directly proportional to flow.

Because KAM® UFM™ flow meters insert directly into the pipe, they won't experience signal loss through the pipe wall. And the sensor is able to be located in the most representative point in the flow profile.

Installation options include a 2" MNPT seal housing and 2", 3", or 4" flanged seal housing. The UFM™ flow meter can easily be inserted or retracted through a full-opening ball valve so **you never have to drain the pipeline**.

KEY KAM® ADVANTAGES

- Built-in temperature sensor
- No moving parts
- Easy to install and calibrate
- Meter factor correction switch
- EX Enclosure suitable for C

APPLICATIONS

- Marine loading, unloading, lightering
- Blending
- Leak detection systems
- Sampling
- Fluid measurement for: crude oil, water, wastewater, muds, pulp, brine, and slurries

KAM CONTROLS IS AN ISO 9001 CERTIFIED COMPANY

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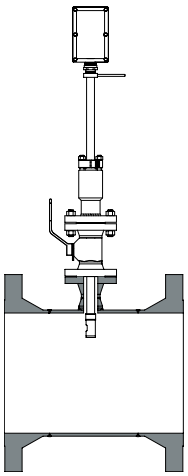
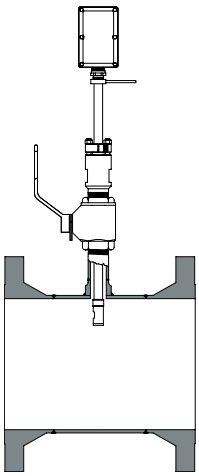
AVAILABLE MODELS and MOUNTING OPTIONS



Option 1:
Retractable UFM™
on a main pipe,
with 2", 3", or 4"
flanged seal housing



Option 2:
Retractable UFM™
on a mainpipe,
with 2" MNPT
seal housing

SPECIFICATIONS

Media:	Crude oil, refined products, water, wastewater
Material:	Wetted parts – 316 stainless steel
Fluid temperature:	-40° to 250°F (-40° to 125°C)
Electronics temperature:	-40° to 160°F (-40° to 70°C)
Power requirements:	12–24 VDC
Accuracy:	1% of full range
Turn down ratio:	100:1 (0.3–30 ft/sec)
Output:	1 pulse per barrel, 1000 pulses per barrel, or optically isolated output
Mounting:	2" MNPT seal housing 2", 3", or 4" flanged seal housing
Pressure rating:	ANSI 150, 300, 600, 900
Sensor dimensions:	1.25" W air foil x 2.8" H (32mm x 71mm)
EX Enclosure:	3" x 6" x 3" (76mm x 152mm x 76mm)
Shaft length:	12" to 60"
Pipe size:	2" to 48"
Weight:	from 10 lbs. (4.5kg)
	(32mm x 71mm)
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