



RIGWATCH Drilling Instrumentation
 DML Mudlogging Services
 PERC Morning Report Software
 RIGREPORT Morning Report Software

• **Safety**

Provides advanced detection of circulation problems, such as gas kicks and loss of circulation.

• **Unique**

Utilizing two sensors in one package, the RFM senses both the speed and level of the drilling fluid in the flow line.

• **Accuracy**

Greater drilling fluid level sensitivity within the flowline.

• **Reliability**

Grease packed bearings can stand up to the harsh conditions of drilling fluids for months.

• **Precision**

The RFM can detect flows as low as 20 gal/min. Excellent tool for checking flow.

Rolling Float Meter

“Advanced Kick Detection for Better Well Control...”



Epoch Well Services, Inc. has introduced the [Rolling Float Meter](#), a mud flow rate and velocity sensor. The [Rolling Float Meter](#) was initially developed to enhance the ability to rapidly detect lost circulation zones; however, due to the extreme accuracy of this device in measuring the flow rate of drilling fluids, the Rolling Float Meter is now being used primarily for early warning kick detection (EKD) applications. By detecting subtle changes in flow rate, rig personnel are given extra time to prepare for gas entries into the wellbore. The [Rolling Float Meter](#) also detects when the well is flowing during connections and tripping operations. On a recently completed 20,000 foot well logged by Epoch using this sensor, 15’ high pressure fractures were penetrated. Each time, within minutes, the Rolling Float Meter detected the associated gas influx after the fracture was drilled.

The [Rolling Float Meter](#) incorporates two sensors within one package. The first is a rotary potentiometer that is six times more sensitive than a standard flow paddle. The second sensor measures velocity. This portion of the [Rolling Float Meter](#) uses a finned wheel that “rolls” across the surface of the mud at a rate proportional to the mud flow. The wheel is adjusted just off the bottom and will detect almost any flowrate within the flowline.

The [Rolling Float Meter](#) is available wherever Epoch DML Mudlogging Services or RIGWATCH™ Drilling Instrumentation systems are in use. Please contact an Epoch Representative for additional information on this sensor.

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