

Return Flowmeter

Measures the amount of mud in return flowlines or ditches

Applications

- Measurement of mud flow out of the well

Features

- The user can select from three paddle sizes to fit flowlines of different diameters.
- A high-resolution absolute encoder measures the angular displacement of the paddle.

Benefits

- Provides the first indication of mud losses or gains
- Requires minimal flowline modification

Certifications

- Sira Certificate No. 11 ATEX 6274
- IECEx SIR 10.01.05C
- Ex ia IIC T4, II 1G

Tool Description

The Weatherford return flowmeter is a surface sensor that measures the amount of mud in open or enclosed return flowlines and ditches. The flowmeter uses encoder technology to enhance the sensitivity and accuracy of the flow-level measurements in relation to the pipe size. From the flow-level measurement, the user can determine the amount of fluid inside the pipe (from 0 to 100 percent filled). Each flow paddle has an integral analog-to-digital converter and intrinsically safe circuitry to provide the industry-standard, loop-powered, 4-20 mA connection.



The return flowmeter comes with three paddles to enable use with flowlines of different diameters, and it uses encoder technology to provide accurate measurements in relation to flowline size.



Return Flowmeter

Specifications

Brand	Hohner
Model	DRAGON
Location	Return mud-flow pipe (covered or open-through)
Enclosure	Stainless steel
Supply voltage	13-32 V loop-powered IS
Output signal	4-20 mA
Precision	256 steps per 90°
Flow detection range	0 to 100% flow (90° paddle deflection)
Sensor operating temperature	−4 to 140°F (−20 to 60°C)
Encoder operating temperature (ambient)	−40 to 275°F (−40 to 135°C)
Operating humidity	Up to 98%

