Analog Position Sensor

Measures the position of the riser tensioner and drillstring compensator on floating rigs, such as drillships and semisubmersibles

Applications

- Tracking bit depth, hole depth, and rate of penetration (ROP) on floating rigs

Features and Benefits

- The system is certified for use in hazardous areas.
- The light weight and compact size facilitates installation.
- The stainless-steel housing resists the harsh saltwater conditions of offshore locations.

Safety Notices

- The analog position sensor conforms to the following certification standards:
    – FM IS Class I, II, III, Division I, Groups A–G
    – ATEX EEx d IIC T6, IP66
    – CSA IS Class I, Division I, Groups A–D

Tool Description

The analog position sensor provides measurements for the position of the riser tensioner and drillstring compensators. The sensor measures piston travel by using a thin wire rope and outputting a proportional 4-20 mA signal.

On floating drilling rigs, the analog position sensor is essential for accurately tracking the ROP and measuring the depth of the bit.

Specifications

Brand	retriever	UniMeasure
	transmitter	Moore Industries
Model	retriever	HX-PA-300-P2X
	transmitter	TRY-HPP-Style
Sensor type		Two-wire loop-powered position potentiometer
Location		Riser compensators: TDS
Wire reach		Up to 21 ft (6.4 m)
Precision		0.09 mA/in. (0.03 mA/mm)