



"Quality by Design, Satisfaction by Performance"



### Mud Flow Sensor - 97ZB0004 (Equivalent To M-D MFTX4AT)

The Mud Flow Sensor is a paddle type sensor that monitors mud flow through the return line. The sensor is mounted on the return line with the paddle extending into the mud flow. Deflected by the force of the mud flow, the paddle drives a potentiometer which produces a DC analog signal that is proportional in amplitude to the position of the paddle.

**\*NEW\*** This sensor is also available with a non-mechanical (NO potentiometer) 4-20MA fiber optic transmitter (P/N97LA0420F). This long life fiber optic unit has no wearing components and no electronics in the sensor or cable and therefore is safe for installation in any classified area.

### Mud Level Probe - 97EA9000-(Length)

The Mud Level Probe is a stainless steel 2 1/2" diameter probe for installation in the mud tanks. It is available in several lengths, (8', 10' and 12') and custom lengths. It has a 12" diameter polyethylene float and includes a probe support bracket assembly. Unique bottom cable entry eliminates water entry due to loose cable glands. Removable cover allows for easy maintenance from all sides. Stainless steel components and Teflon belt insure reliable operation in extreme conditions.



### Wing Union Pressure Transducer Series 9700

Designed to withstand even the most rugged oil field applications. Built to NANCE Standard MR-01-75 (1980). The transmitter's wetted surfaces are resistant to sour gas and a wide range of corrosive and abrasive materials. The transmitter installs into a WECO #1502, two inch sub-assembly. The transmitter is proven to withstand the normal shock of frequent installations and removal along with the continuous vibration of triplex pump operation.



## Drawworks Shaft Encoder

The Drawworks Shaft Encoder combines the rugged, heavy-duty features usually associated with shafted encoders into a hollow-shaft style. It's design includes dual bearings and shaft seals for NEMA 4, 13 and IP65 environmental ratings, a rugged metal housing and a cable gland. This low-profile design, just 2" deep, is easily mounted on the end of most drawworks. Contact Innovative Electronics for additional information on NEMA and other certifications.

## Mud Density Transmitter

The Mud Density transmitter is manufactured with Hastelloy C-276 diaphragms and all welded 316SS capillary tubes for superior corrosion resistance. This transmitter uses small bore, thick walled capillaries to minimize oil volume and subsequent thermal errors due to thermal expansion or contraction. The entire transmitter (including electronics) can be submerged in the drilling fluid for excellent thermal accuracy. Pressure Ranges of 0.30 inches H<sub>2</sub>O (6.67 PPG to 20.0 PPG). 5 to 1 turndown ratio from the basic ranges. Static accuracy better than ±0.25% URL. Certified Explosion Proof and Intrinsically Safe to FM, CSA, and CENELEC requirements.



## Additional Sensors:

- Proximity and Mechanical Mud Pump Stroke and Rotary Table RPM Sensors
- Electric/Hydraulic Drilling Torque Systems
- Electric/Hydraulic Tong Torque Sensors
- Ultrasonic/Radar Tank Level Sensors
- Mud Temperature In/Out
- Gas Detectors

Contact the factory for additional sensor needs not listed in this brochure.

For Additional Information Contact:



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SensorsA4 Rev. 03/26/02