

## Continuous Water Sensor Saves Steel Mill Time and Money

Water contamination in hydraulic and lubrication oils can cause numerous problems such as additive depletion, oil oxidation, corrosion, reduced film thickness and microbial growth. These costly problems can easily be averted by continuously monitoring the water content of the oil so that the plant personnel can take corrective action before any significant issues occur. Optimum performance is achieved from hydraulic and lubrication oils when there is no free water present and their dissolved water saturation levels are below 50%.

The Pall WS10 Series water sensor is an ideal, low cost, in-line, monitoring solution for measuring dissolved water content in hydraulic and lubricating oils. These units are specifically designed to perform in the harsh and often remote environments present in the steel industry. The Pall WS10 Water Sensor continuously measures the percent water saturation level readings and transmits them to the plant's DCS or SCADA control system. This allows mill personnel to be constantly aware of the oil's condition and quickly address any increase in water levels before any problems can occur.

One Midwestern Steel Mill saved over \$400,000 when their Pall WS10 Water Sensor notified them of an increase in water level in their oil. The plant personnel reacted quickly and prevented the loss of an entire tank of oil as well as damage to expensive mill equipment.

### WS10 Water Sensor Features:

- Two (2) separate analog 4-20 ma output signals (0-100% Saturation & -13 to 260F)
- Rugged all in one modular housing and sensing probe
- Simple and easy to install
- Fully immersed sensor provides real time monitoring of hydraulic or lubrication oils



### Applications in Primary Metals

- Lube & Morg Oil Systems
- Coiler Hydraulic & Lubrication Systems
- Tilt Furnace Hydraulic Systems
- Segment Hydraulic Systems
- High Speed Lubrication Systems
- Turbine Lube Oil Systems
- Billet Saw & Extrusion Press Hydraulic Systems