

SULPHID ION CONCENTRATION IN AND OUT

The sulphide ion sensors provide an indication of H_2S before the H_2S has a chance to combine at surface to create a gas (S^{2-} ions combine with $2 H^+$ to create H_2S). Sulphide ion monitoring gives advance notice that scavengers need to be added to the mud system to prevent H_2S formation. The sulphide sensors must be run in conjunction with and interface with the temperature and pH sensors. The ANAX system processes the pHS to calculate the ionic concentration from the temperature and pH sensors and provides a **H_2S in AIR**. The sulphide ion sensors are the same as the pH sensors except for an ion specific element. The sulphide ion sensors operate in the range 0.003 to 32100 PPM over the pH range 2 to 12 and temperature range 0 to 80 °C. Accuracy is +/- 2%.

