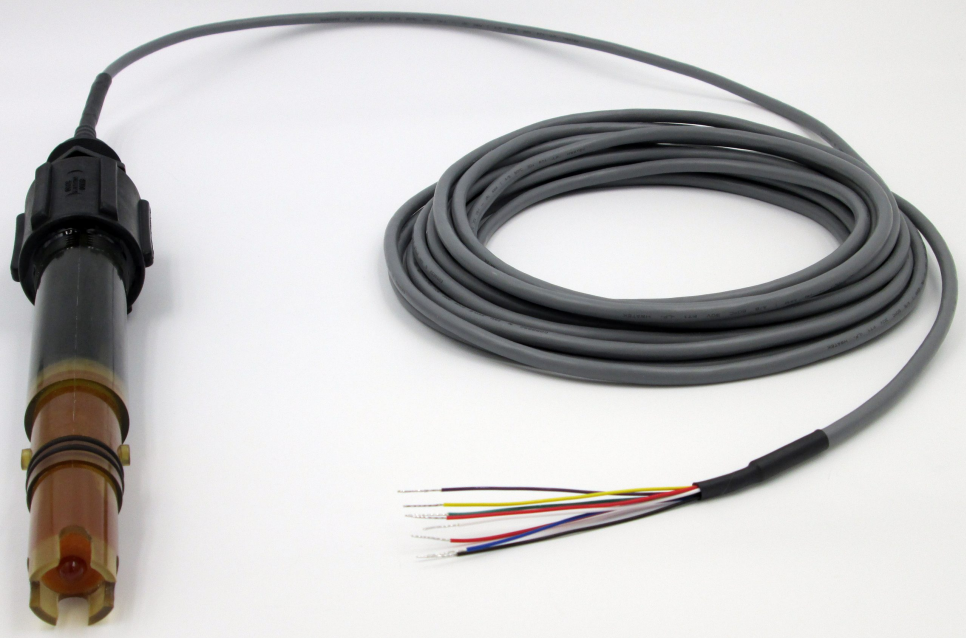
Mining

Mining Case Studies



Case Study #5
High Temperature Agitated Slurry
Copper Ore Mixtures

- Agitated heavy slurry mixtures are endured by the sensor by use of a strong break resistant thick-wall pH glass element (nearly unbreakable under ordinary mining slurries use)
- Build up on reference element is minimized by solid state reference system, which also allows for aggressive chemical and mechanical cleaning
- Retrofit sensor can connect to almost any existing pH Transmitter

- Advanced waterproofing assembly allows for continuous submersible installation with little or no solution intrusion onto cable from back of probe
- Unique sealing technology that is custom built and engineered for mining applications allows for continuous and aggressive dissolved ammonia gas exposure

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Case Study #5 PDF



Case Study #8
Rugged pH and Cyanide Ion Selective Mining Sensors for Gold Leach Applications

- Cyanide Sensor has been engineered for gold mining to optimized stability and lifetime
- Custom pH sensor with solid state triple junction reference system and thick wall rugged pH glass element can withstand continuous use in agitated slurries

- Unique Dual Channel pH/CN- Analyzer and automatically output total (pH compensated) cyanide using only a pH and cyanide ion selective sensor

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Case Study #8 PDF



Case Study #9
High Temperature Agitated Slurry Nickel Ore Mixtures & Solvent Extractions (SX)

- Agitated heavy slurry mixtures are endured by the sensor by use of a strong break resistant thick-wall pH glass element (nearly unbreakable in most mining slurries)
- Build up on reference element is minimized by solid state reference system, which

also allows for aggressive chemical and mechanical cleaning

- Retrofit sensor can connect to almost any existing pH Transmitter
- Advanced waterproofing assembly allows for continuous submersible installation with little or no solution intrusion onto cable from back of probe
- Unique sealing technology that is custom built and engineered for mining applications allows for continuous and aggressive dissolved ammonia gas exposure
- Unique organic solvent & hydrocarbon resistant reference systems and sealing technology allow for continuous submersed sensor use with little degradation

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Case Study #9 PDF