



T23 CYANIDE TRANSMITTER MINING APPLICATIONS

NEW, NEW, NEW! – CYANIDE SPECIFIC ION – NEMA 4X, loop powered, micro-processor controlled, *diagnostic transmitters and sensors:

ECD's **technology breakthrough** electrodes are specifically ruggedized for the rigors of slurry (crushed ore) and high pH conditions (12pH +). ECD offers instrumentation that allows more efficient extraction of precious metals (GOLD and SILVER) in applications such as batch, heap, vat, and mine tailings utilizing "inline" process measurement. **FREE CYANIDE (and other ISE/pH electrodes)** controllers and sensors can be configured with ECD's *SENTINEL, pre-pHault DIAGNOSTIC technology – contact ECD.

CNXMTR

Simplicity, safety, and ease of operation are the key benefits for the Cyanide Transmitter (CNXMTR) instrumentation. Uniquely designed for Cyanide applications, the ultra sensitive mV slope provides higher sensitivity in detecting variation of CN- concentration. CN-/pH Dissociation circuitry eliminates errors in lower pH regions. Customized Isopotential point algorithms eliminate temperature errors.

For safety in cyanide (CN-) control, ECD's ultra sensitive CYANIDE electrodes and the unique algorithms programmed into the CNXMTR allowing pH correction of the of two process variables (pH and Cyanide) Dissociation of certain ions, like cyanide, ammonium, fluoride, etc., historically varied greatly with low pH values and variations (>12pH); this is where the CNXMTR excels in performance. ECD technology and software algorithms also detect and eliminate the most minute pH and temperature errors as found in cyanide applications, and displayed via transmitter process menus or 4/20mA output.

PROCESS VARIABLES

Specific ion (ISE) and pH, *in Cyanide process applications*, for efficient extraction of precious metals - GOLD and SILVER. Non-precious metals - COPPER, NICKEL, COBALT, and MOLYBDENUM

SIMPLE CALIBRATION

The power of the microprocessor provides accurate, "simple to read" menus eliminating the lengthy, difficult to follow, logic flow diagrams with *referral*

hieroglyphics. Simple to read process menus, along with fast action membrane keypads allows efficient one or two point calibration for all process variables.

COST SAVINGS THROUGH TECHNOLOGY

"FREE CYANIDE" analyzer with "technology breakthrough" Electro-Chemical ISE and pH electrodes specifically designed for the rigors of crushed ore conditions. ECD offers instrumentation specializing in more efficient extraction of precious, and non-precious metals; longer lasting specific ion electrode membranes and greater sensitivity than ever before.

SIMPLE CHOICE FOR DURABILITY

Cyanide concentrations used to dissolve gold (500 ppm and higher) will not adversely affect ECD's "Ultra Electrodes" thereby providing longer life than conventional cyanide electrodes.

SUPERIOR APPLICATION ENGINEERING AND TECHNICAL SUPPORT

Highly personalized tech support, rapid shipments and toll free customer service where you *will* discuss your application, or instrument requirements, directly with *instrumentation* designers and engineers. With decades of leadership, ECD continues to work tirelessly to help you achieve the very best results possible. Put our analytical **ELECTRO-CHEMICAL DEVICES** to the test, call today to arrange for an evaluation at your site and discover how simple liquid analysis can be; our company name "says it all."



ELECTRO-CHEMICAL DEVICES, INC.

Bringing Simplicity To A Solution

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