



“INSITU” pre-pHault Diagnostics

ECD's **NEWEST DIAGNOSTIC TRANSMITTER - T23**, 1/2 DIN, *Microprocessor controlled*, loop powered, process transmitter has been designed and manufactured to provide **REAL TIME, IN PROCESS ELECTRODE DIAGNOSTICS** for enhanced, predictable, "measurement and control status" in its simplest form. **NEMA 4X** rated, the T23 can be installed, wired, calibrated, and ready to use in minutes.

THE SENTINEL line of ECD instrumentation predicts **ELECTRODE** process intrusion as an **INSITU pre-pHault** condition. Contamination from the wet process will eventually change internal electrode Electro-Chemistry via oxidation/reduction of the metal/metal salts. This degradation is graphically depicted on the analyzer's main process screen as a vertically expanding **PRE ALERT bar** that will eventually flash as a critical event. Additionally, "real time" electrode engineering data (mV offset) is simultaneously displayed on the T23 diagnostic screen where control parameter limits can be set during customer initialization of the T23. These **pre pHault Alerts** visually and electronically warn the user of a **pending** chemical alteration of the **Electro-Chemical Reference Measurement Cell prior to any occurrence of measurement errors**. Diagnostic data can be used for a **just in time** electrode change greatly enhancing process management by preventing unexpected "**process down time.**"

PROCESS VARIABLES

pH, ORP, or SPECIFICION, electrodes can all be quickly assessed as to their **REAL TIME, "INSITU"** performance by way of ECD's newest **T23 SENTINEL DIAGNOSTIC SYSTEM**.

SIMPLE CALIBRATION

The power of the microprocessor provides accurate, "simple to read" display screens eliminating the "hard to follow, lengthy, logic flow diagrams, or hieroglyphics. Simple to read process menus, along with fast action membrane keypads allows efficient one or two point calibration for all process variables. Real time, **DIAGNOSTIC** information is transmitted via a 4-20mA output, relay closure or digital output signal. Additionally, a 4-20mA temperature output can be configured, as required. EE-prom programmability enables the customer to choose from numerous proven standard, or custom, process measurement routines.

COST SAVINGS THROUGH SIMPLICITY

Re-buildable immersion (S10) or valve retractable (S17) sensors. **Low cost** electrode replacement. **INSITU electrode status** greatly reduces the need for electrode spares and compliments JIT ordering. Minimize process down time. **INSITU diagnostics enhances process management and pre planned instrument maintenance.**

SIMPLE CHOICE FOR DURABILITY

The T23 1/2 DIN polycarbonate enclosure is **NEMA 4X** rated (watertight, dust and chemical resistant). Easy to read, bright, LCD screens. All internal PC boards are coated to resist mold or mildew as experienced in tropical conditions. The T23 is easily configured for Universal, Panel or Handrail mounting. It can be ordered as a portable unit (display only readout). **SENSORS:** Select from: Stainless Steel, Hastelloy C22, Titanium, Kynar, Teflon, or Polypro housing construction.

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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