



Transmitters & Controllers



ELECTRO-CHEMICAL DEVICES



The Instruments



Model T23 (Left)

Loop/line powered Transmitter
NEMA 4X

Model T28 (right)

Loop powered Transmitter
Intrinsically Safe/Explosion Proof



Model C22

110V/220V powered
Multi-Channel Analyzer/Controller





T-23 Transmitter



- ❖ Microprocessor based 2-wire Transmitter.
 - pH/ORP
 - pIon
 - Dissolved Oxygen (DO)
 - Conductivity/Resistivity
- ❖ Loop Powered or Optional Line Powered Instrument
- ❖ Durable Poly-Carbonate Case NEMA 4X, ½ DIN
- ❖ Panel Mount, Universal Mount or Handrail mount



T-23 Transmitter



- ❖ Two Line Display
 - Process Variable with Eng. Units
 - Temperature and % 4-20 mA output
- ❖ Simple Menu Structure
 - Plain English No Hieroglyphics
- ❖ Easily Scalable 4-20 mA Output
- ❖ Easy Calibration
 - One or Two point
 - Stored: Iso-potential (mV offset)
 - Stored: Slope (mV/decade)



T23 Transmitter



- ❖ Optional 2nd Input
 - Only on pH, ORP, ISE
 - 2nd Output requires an output daughter card
- ❖ Optional Line Power
 - 110 VAC or
 - 220 VAC
- ❖ Optional Relay Card
- ❖ Optional PID Output



T28 Transmitter



- ❖ Microprocessor based 2-wire Transmitter.
 - pH/ORP
 - pIon
 - Dissolved Oxygen (DO)
 - Conductivity/Resistivity
- ❖ Single channel
- ❖ Loop Powered
- ❖ Durable 316 SS or Aluminum housing
- ❖ Universal Mount
- ❖ FM and CSA approved
- ❖ Intrinsically Safe with Explosion Proof housing

T28 Transmitter

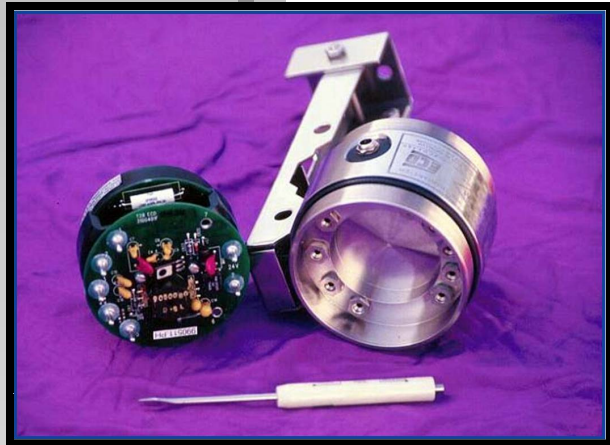


- ❖ Displays PV, Temperature and % output
- ❖ Plain English Process Menus
 - No Hieroglyphics
- ❖ Sensor Diagnostics
- ❖ Last Calibration Data
 - Iso-potential (mV offset)
 - Slope (mV/decade)
- ❖ Easily Scalable 4-20 mA
- ❖ Configuration and Calibration performed through Hall Effect magnetic controls





T28 Transmitter



- ❖ Display rotates 90° for easy viewing
- ❖ Easily replaceable electronics modules
- ❖ Wire terminations are isolated from the electronics compartment.
- ❖ Designed for low voltage service (12V) after IS barriers.



C 22 Analyzer/Controller



- ❖ Microprocessor based Analyzer/Controller
- ❖ Single or Dual Channel Input
- ❖ Multiple Outputs
- ❖ Control Functions Include
 - Proportional Integral Derivative (PID)
 - Pulse Width Modulation (PWM)
 - AND/OR Logic Gates
 - Timers

C 22 Analyzer/Controller



- ❖ Easily Configured
- ❖ Backlit Graphics Display
- ❖ Power Supply
 - 110/220 VAC
 - 24 VDC option
- ❖ Durable Poly-Carbonate Case NEMA 4X, ½ DIN
- ❖ Panel Mount, Universal Mount or Handrail mount



C 22 Analyzer/Controller

C22 Dual Specific Ion Analyzer

Chloride Ion (Ch 2)
% Output (4-20 mA) Ion Conc.
Temperature

Calcium Ion (Ch 1)
% Output (4-20 mA) Ion Conc.
Temperature

Move Up to Chloride Menus

Move Down to Calcium Menus



C 22 Analyzer/Controller



❖ Microprocessor based Single or Dual Channel Analyzer

- pH/ORP
- pIon (Specific Ion)
- Dissolved Oxygen
 - Optical or Amperometric
- Conductivity/Resistivity
 - Contacting or Toroidal

❖ Dual Channel Comparison

C 22 Analyzer/Controller

❖ Multi Bus Design

- Up to Four Inputs
 - 2 x Process Variable
 - 2 x Temperature
- Up to Six 4-20 mA Outputs
 - Daughter Card holds up to three 4-20 mA outputs
 - Two Cards max (6 outputs)
- Up to Eight Alarm Relays
 - 4 relays per card
 - Two cards max (8 relays)



C 22 Analyzer/Controller



- ❖ Backlit Graphics display
 - Six lines of information
 - PV with Engineering Units, Temp, % output are displayed for each channel
 - Any Input or Output parameter can be graphically displayed vs. Time
- ❖ 4 Easy to use Menus
 - Buffer (Calibration)
 - Set Up (Ranges)
 - Status
 - Configuration

C 22 Analyzer/Controller



❖ Control Functions

- Timers
- Logic Gates
- PID
- PWM

❖ (8) Timers

- Periodic triggered
- Event Triggered

❖ Logic Gates

- (3) AND / NAND
- (3) OR / NOR

C 22 Analyzer/Controller



❖ (2) Independent PID Controllers

- PID Output A & PID Output B
- Each PID Output can be assigned to:
 - Up to (2) 4-20 mA outputs
 - Up to (4) Relays

❖ (2) Independent PWM Controllers

- PWM Output A & PWM Output B
- Each PWM Output can be assigned to a relay



Thank You

Potable Water, Waste Water,
Boiler Water, Cooling Towers

Electro-Chemical Devices

Transmitters and Analyzers
For all of your Measurement
Needs



Bringing Simplicity to the Solution

