ELECTRO - CHEMICAL DEVICES, INC.

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SPECIFICATION SUMMARY SHEET T23 ORP TRANSMITTER

MEASUREMENT RANGE

+1000 to -1000 mV, fully expandable and reversible, standard.

OUTPUT

4-20 mA or 20-4 mA, linear and expandable. Up to a maximum of 3 outputs.

POWER REQUIREMENTS (with zero loop impedance)

Recommended 24 vdc Maximum 50 vdc Minimum 13.5 vdc

MAXIMUM LOOP IMPEDANCE (@ 24 vdc)

525 ohms for 4-20 mA compliance on primary (channel 1) output; approximately 800 ohms on secondary outputs.

RELAY MODULE

2 each Form C, SPDT, dry contacts, $50/60 \, hz$. 5 amps @ 24vdc

3 amp @ 24vdc inductive

Single channel T23: Both relays assigned to channel. Dual Channel T23: One relay assigned to the primary channel, one relay assigned to the secondary channel Relays can be field configurable as high or low relays. The deadband is fully adjustable.

DISPLAY

Menu driven, 32 character alphanumeric, Supertwist LCD. The main menu simultaneously displays (1) process identity (2)process value (and engineering units), (3)percent output, (4)temperature in ^OC or ^OF.

ENCLOSURE

NEMA 4X, weatherproof

SHIPPING WEIGHT

Standard T23: 2 lbs (0.91 kgs)

ACCURACY

+/- 0.10% of full scale

SENSITIVITY

+/- 1.0 mV

LINEARITY

+/- 0.05% of full scale

STABILITY

+/- 0.2% per year @ 0°C to 70°C

RESPONSE TIME

1 second to reach 90% of the change.

REPEATABILITY

+/- 1.0 mV

OPERATING TEMPERATURE

 -4° F to $+158^{\circ}$ F (-20° C to $+70^{\circ}$ C)

TEMPERATURE COMPENSATION

Not used for compensation; however, temperature is displayed. Accuracy within +/-0.1°C over a 0°C-100°C span.

50/60 Hz NOISE REJECTION

Greater than 70 db

INPUT/OUTPUT ISOLATION

Maximum 300 volts between process input and any 4-20 mA output (single and multiple channel outputs). No isolation between inputs on multiple channel units.

CALIBRATION

Auto Buffer Calibration

Allows the definition of two buffer points, saved in memory, during the initial start-up. This will allow subsequent standardize and span buffer calibrations with only 2 keystrokes.

Back-to-Factory Calibration (Factory Restart)

With 2 keystrokes, allows the technician to return the transmitter to a zero electrode offset (asymmetry potential) and to an ideal Nernstian slope (1.000 mV per ORP unit).

Temperature Trim

Allows for compensation for any differences in RTDs by programming the offset into the transmitter.

Temperature Display

Temperature can be field configured to display in ^OC or ^OF.

Display Contrast

Fully adjustable for ambient lighting conditions