



## INDICATOR/ CONTROLLER

# NEMA 4X Analog Input Batch Controller

## TEK-BATCH 7900A



### 1 FEATURES

- Sun Bright Display Standard
- Start, batch, & stop with pause front panel buttons
- Single or multi-stage batching with up to 8 relays
- Menu selectable hardware & software feature
- Automatic overflow correction
- Manual control or automatic batching
- SafeTouch® through-glass button programming
- Modbus RS-485 serial communications
- Flanges for wall or pipe mounting
- Isolated 24 VDC @ 25 mA transmitter power supply
- Grand total can count up or down

### 3 APPLICATIONS

- Batching
- Dosing
- Loading
- Blending

### CONTACT US

796 Tek Drive, Crystal Lake,  
IL 60014 USA

+1 847 857 6076

Email: [tektrol@tek-trol.com](mailto:tektrol@tek-trol.com)

[www.tek-trol.com](http://www.tek-trol.com)

### 2 SPECIFICATION

Range	Over : Display flashes 999999, Under: Display flashes -99999
Display Intensity	Eight user selectable intensity levels
Display Update Rate	5/second (200 ms)
Fuse	UL Recognized, 5A max, slow blow
Display	Upper display: 0.04ft (0.60") high. Lower display: 0.03ft (0.46") high. Both are 6 digits (-99999 to 999999), red LEDs
Front Panel	NEMA 4X, IP65
Noise Filter	Programmable from 2 to 199 (0 will disable filter)
Filter Bypass	Programmable from 0.1 to 99.9% of calibrated span.
Accuracy	±0.03% of calibrated span ±1 count, square root & programmable exponent accuracy range: 10-100% of calibrated span
Calibration Range	4-20 mA, 0.15 mA, ±10 V, 0.10 V
Total Conversion Factor	0.00001 to 999,999
Batch Preset	0.00001 to 999,999 based on batch total decimal point
Inputs	Field selectable: 0-20, 4-20 mA, ±10 VDC (0-5, 1-5, 0-10 V)
HART Transparency	Analog input will not interfere with existing HART communications on the wired 4-20 mA signal
Voltage ranges	Greater than 1 MΩ, Current ranges: 50 - 100 Ω (depending on resettable fuse impedance)
Environmental	T6 Class operating temperature range Ta = -40 to 140°F T5 Class operating temperature range Ta = -40 to 140°F
Connections	Removable screw terminal blocks accept 12 to 22 AWG wire, RJ45 for external relays, digital I/O, and serial communication adapters
Mounting	Four slotted flanges for wall mounting or NPS 1½" to 2½" or DN 0.13to 21ft pipe mounting
Weight	16.0 lbs (7.26 kg)
Dimensions	6.42" x 7.97" x 8.47" (W x H x D) (0.53ft x 0.66ft x 0.70ft)
Power Options	85-265 VAC 50/60 Hz, 90-265 VDC, 20 W max, or optional model with 12-24 VDC ±10%, 15 W max
Password	Three programmable passwords restrict modification of programmed settings and two prevent resetting the totals.