



## INDICATOR/ CONTROLLER

# Explosion-Proof Pulse Input Flow Rate/Totalizer Indicator

## TEK-LCD 7803B



### 1 FEATURES

- Automatic rate, total, and grand total unit conversions
- On-board data logging
- Modbus communications RS-485 option
- Two isolated open collector pulse outputs, up to 5 kHz
- Open collector, NPN, PNP, TTL, switch contact, Sine wave (coil), square wave, opto-isolated inputs
- Explosion-Proof, IP68, NEMA 4X enclosure
- Battery, DC, or output loop-powered models
- 13-digit totalizer with total overflow feature
- Operates from -40 °C to 75 °C (-40°F to 158°F)
- 5-digit 0.7" (0.05 ft) top display for rate or total
- Isolated 4-20 mA output for rate, total

### 3 APPLICATIONS

- Batching
- Dosing
- Loading
- Blending

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### 2 SPECIFICATION

Display	Top: Five digits (0 to 99,999), 0.7" (0.05 ft) high, 7-segment, automatic lead zero blanking. Bottom: Seven characters, 0.4" (0.03 ft) high, 14-segment automatic lead zero blanking.
Display orientation	Mounted at 90° increments up to 270° from default orientation
Backlight	White LED, 10 sec auto-off when battery powered
Display update rate	Ambient > -4°F (-20°C): 1 Update/Second. Ambient < -4°F (-20°C): 1 Update/10 Seconds.
Over range	Display flashes 99,999
Programming method	Four SafeTouch through-glass buttons when cover is installed. Four internal push buttons when cover is removed.
Power options	9-30 VDC, 2.2 W max; 4-20 mA Output Powered, 30 VDC max; battery power; 9-30 VDC power with battery backup; 4-20 mA Output.
Operating temperature range	-40°F to 158°F (-40 °C to 75 °C)
Storage temperature range	-40°F to 158°F (-40 °C to 75 °C)
Relative humidity	0 to 90% non-condensing
Connections	Screw terminals accept 12 to 22 AWG wire
Accuracy	±0.03% of calibrated span ±1 count
Temperature drift	Rate display is not affected by changes in temperature.
Calibration range	Input 1 signal must be ≥ 1 Hz; input 2 signal may be set anywhere above input 1 setting. Minimum input span is 1 Hz. An Error message will appear if the input 1 and input 2 signals are too close together.
Enclosure	Explosion-proof die-cast aluminum with glass window, corrosion resistant epoxy coating, color: blue. NEMA 4X IP68. Copper-free (0.3%). Three ¾" NPT threaded conduit openings. One ¾" NPT metal plug with 0.03 ft hex key fitting installed.
Mounting	Mounted directly to conduit. Two slotted flanges for wall mounting or NPS 1½" to 2½" or 0.13 to 0.21 ft pipe mounting.
Weight	5.00 lbs (80 oz, 2.27 kg)
Dimensions	5.67" x 5.24" x 4.88" (0.47 ft x 0.43 ft x 0.40 ft) (W x H x D)
Decimal point	Up to four decimal places or none: 4.4444, 33.333, 222.22, 1111.1, or 00000
Input impedance	Pulse input: Greater than 75 kΩ @ 1 kHz.
Time base	Second, minute, hour, or day
Maximum frequency	20 kHz