



INDICATOR/ CONTROLLER

Explosion-Proof Modbus Scanner Indicator

TEK-LCD 7804B



1 FEATURES

- Modbus® master, slave, or snooter mode
- Scan up to 16 modbus process variables
- 5-digit decimal or feet & inches level display
- On-board three-wire RS-485 with modbus
- Independent scaling, tag, and unit for each PV
- Explosion-Proof, IP68, NEMA 4X enclosure
- SafeTouch® through-glass button programming
- Isolated 4-20 mA output option
- Pulse input for rate, total, and grand Total
- 13-digit totalizer with total overflow feature
- Operates from -40 °C to 75 °C (-40°F to 158°F)

3 APPLICATIONS

- Batching
- Dosing
- Loading
- Blending

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2 SPECIFICATION

Display	Top Display: 0.60" (0.05 ft) high, 0 to 399 ft, 1115/16 IN, 7-segment, programmable 1/16 or 1/8 fraction display. Bottom Display: Seven Characters, 0.4" (0.03 ft) high, 14-segment, 7-digits.
Display orientation	Mounted at 90° increments up to 270° from default orientation
Backlight	White LED, 10 sec auto-off when battery powered
Alarm indication	Flashing display plus HI/LO (alarm) or SET indicators
Recalibration	Calibrated at the factory to read frequency in Hz. No recalibration required.
Programming method	Four SafeTouch through-glass buttons when cover is installed. Four internal push buttons when cover is removed.
Input Power	9-30 VDC, 38 mA max. 2.2 W
Operating temperature range	-40 °C to 75 °C (-40°F to 158°F)
Storage temperature range	-40 °C to 75 °C (-40°F to 158°F)
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, 7, & 9, IP68. Copper-free (0.3%). Default conduit connections: Three ¾" NPT threaded conduit openings. One ¾" NPT metal plug with 0.03 ft hex key fitting installed. Additional conduit opening configurations and plugs may be available; verify quantity and sizes on specific device labeling during installation.
Mounting	Mounted directly to conduit. Two slotted flanges for wall mounting or NPS 1½" to 2½" or DN 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. Open collector/ Switch input: 100 kΩ pull-up to 3 V.
Time base	Second, minute, hour, or day