



## INDICATOR/ CONTROLLER

# NEMA 4X Modbus Scanner Indicator

## TEK-LCD 7804A



Technology Solutions



### 1 FEATURES

- Modbus Master, Slave, or Snooper 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
- Injection-Molded, IP65, NEMA 4X Enclosure
- Isolated 4-20 mA Output Option
- Pulse Input for Rate, Total, and Grand Total
- 13-Digit Totalizer with Total Overflow Feature
- Password Protection
- Backlight Standard on All Models
- Operates from -40°F to 158°F (-40 to 75°C)
- Two Isolated Pulse Outputs Standard, Up to 5 kHz

### 3 APPLICATIONS

- Cement industry
- Water and waste water industries
- Oil and Gas
- Pharmaceutical
- Food processing industry

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### 2 SPECIFICATION

Decimal Display	Top Display: Five Digits (0 to 99999), 0.7" (0.05ft) high, 7-segment, automatic lead zero blanking. Bottom Display: Seven Characters, 0.4" (0.03ft) high, 14-segment, automatic lead zero blanking. Symbols: Total, grand total, high alarm, low alarm, SafeTouch button sleep mode/disable, password lock.
Feet & Inches Display	Top Display: 0.60" (0.04ft) high, 0 to 399FT, 11 and 15/16 IN, 7-segment, programmable 1/16 or 1/8 fraction display. Bottom Display: Seven Characters, 0.4" (0.03ft) high, 14-segment, 7-digits. Tank Level Indicator: 20-segments, F (Full) and E (Empty). Alarm Indication: High and low alarm   Backlight: White
Backlight	White LED, 10 sec auto-off when battery powered. Backlight deactivated below temperature ≈ -4°F (-20°C)
Underrange	Upper Display: Decimal display flashes -9999. Level display flashes to 399FT, 11 and 15/16 IN Lower Display: Flashes -999999
Recalibration	Calibrated at the factory to read frequency in Hz. No recalibration required.
Input Power	9-30 VDC, 38 mA max. 2.2 W
Data Logging	Up to 512 records, recorded 4/day at specific times or at defined time intervals. Record contains first eight enabled Mod-bus PVs; C1-4 if enabled; date; time; pulse rate, total, and grand total with units; and log number.
Non-Volatile Memory	All programmed settings and total reading are stored in non-volatile memory for a minimum of ten years if power is lost.
Connections	Screw terminals accept 12 to 22 AWG wire
Enclosure	NEMA 4X, IP65 plastic field enclosure. Color: grey. Material: Polycarbonate with UV Stabilizer. Three 3/4" NPT threaded conduit openings. Two 3/4" NPT plastic conduit plugs, with 1.29" wrenching flats and a screwdriver slot, are included.
Scan and Update Rate	Ambient > -4°F (-20°C): Modbus PV scan rate programmable from 2 to 99 seconds per PV. Tag and units programmable for 1 to 5 second alternation. Pulse input variables update 1/second. Rate update is dependent on gate settings. Ambient < -4°F (-20°C): All Modbus scan, alternating units and tags, and pulse input variables update/10 seconds minimum.
Alarm Indication	Flashing display plus HI/LO (alarm) or SET indicators.
Mounting	May be mounted directly to conduit. Two slotted flanges for wall mounting or NPS 1 1/2" to 2 1/2" or DN 0.13 to 0.21ft pipe mounting.
Display Orientation	Display may be mounted at 90° increments up to 270° from default orientation.
Overall Dimensions	5.67" x 5.25" x 4.18" (0.47ft x 0.43ft x 0.34ft) (W x H x D)
Weight	1.65 lbs (26.4 oz, .75 kg)
Warranty	3 years parts and labor