INDICATOR/
CONTROLLER

NEMA 4X Pulse Input Rate/Totalizer Indicator

TEK-LCD 7803A

TEKTROL
Technology Solutions

1 FEATURES

- Automatic Rate, Total, and Grand Total Unit Conversions
- On-Board Data Logging
- Modbus Communications RS-485 Option
- All Models Operate from (-40°F to 158°F)
- 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
- Plastic NEMA 4X, IP65 Enclosure
- Isolated 4-20 mA Output for Rate, Total, or Grand Total
- Battery, DC, or Output Loop-Powered Models

3 APPLICATIONS

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

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2 SPECIFICATION

Display	Top: Five digits (0 to 99,999), 0.7" (0.05ft) high, 7-segment, automatic lead zero blanking. Bottom: Seven characters, 0.4" (0.03ft) high, 14-segment automatic lead zero blanking. Symbols: Total, grand total, battery power/low battery, high & low alarm, password lock, and SafeTouch button sleep mode/disable.
Display Assignment	Top Display: Rate or total; Bottom Display: Combinations of rate, total, grand total, units, and custom tag.
Backlight	White LED, 10 sec auto-off when battery powered. Backlight deactivated below temperature ≈ -4°F
Display Update Rate	Ambient > -4°F: 1 Update/Second. Ambient < -4°F: 1 Update/10 Seconds. Note: Update is dependent on gate settings
Display Orientation	Display may be mounted at 90° increments up to 270° from default orientation
Over Range	Display flashes 99,999
Programming Method	Four SafeTouch through-window buttons when cover is installed. Four internal push buttons when cover is removed.
Recalibration	Calibrated at the factory to read frequency in Hz. No recalibration required
Max/Min Display	Max/Min readings reached by the process are stored until reset by the user or until power to the meter is cycled.
Alarm Indication	Flashing display plus HI/LO indicators for rate alarms, SET for total alarms.
Non-Volaile Memory	All programmed settings and total are stored in nonvolatile memory for a minimum of ten years if power is lost.
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 Powered with Battery Backup.
Battery	3.6 V Primary Lithium (Li-SOCl2), non-rechargeable Model PDABAT36C. Expected service life & recommended replace-ment interval is dependant on the operating conditions.
Data Logging	Up to 1024 records, recorded 4/day at specific times or at defined time intervals. Record contains date, time, rate, total, grand total, and log number.
Operating Temperature Range	-40°F to 158°F (-40 to 75°C)
Storage Temperature Range	-40°F to 158°F (-40 to 75°C)
Relative Humidity	0 to 90% non-condensing
Connections:	Screw terminals accept 12 to 22 AWG wire
Enclosure	NEMA 4X, IP65 plastic field enclosure. Color: grey. Material: Polycarbonate with UV Stabilizer. Three ¾" NPT threaded conduit openings. Two ¾" NPT plastic conduit plugs, with 1.29" wrenching flats and a screwdriver slot, are included.
Mounting	May be mounted directly to conduit. Two slotted flanges for wall mounting or NPS 1½" to 2½" or DN 0.13 to 0.21ft pipe mounting.
Overall Dimensions	5.67" x 5.25" x 4.18" (W x H x D) (0.47ft x 0.43ft x 0.34ft)
Weight & Warranty:	1.65 lbs (26.4 oz, 0.75 kg) | 3 years parts and labor