



INDICATOR/ CONTROLLER

Explosion-Proof Loop-Powered Process and Level Indicator

TEK-LCD 7800B



1 FEATURES

- 4-20 ma input
- Modern, sleek and practical enclosure for safe areas
- 5-digit, 0.7" (0.05 ft) upper display (0.6" for -01 models)
- Optional level indicator bar graph
- 7 alphanumeric character, 0.4" (0.03 ft) lower display
- Safetouch® through-glass button programming
- Password protection
- 32-point, square root, or exponential linearization
- Loop or external dc-powered backlight standard
- 3.0 v drop (6.0 v with backlight)
- Explosion-proof, ip68, nema 4x enclosure
- Hart protocol transparent
- Operates from -40 °c to 75 °c (-40°F to 158°F)

3 APPLICATIONS

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

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2 SPECIFICATION

Display	Five digits (-9999 to 99999) 0.70" (0.05 ft) high, 7-segment, automatic lead zero blanking; -0L1: 0.6" high with level bar graph. Lower: Seven characters 0.4" (0.03 ft) high, 14 segment alphanumeric. Symbols: for high & low alarm, Password Lock. Backlight: White
Decimal Point	Upper process display has up to four decimal places or none: d.dddd d.ddd, d.dd, d.d, or dddd
Display Update Rate	Ambient > -25°C: 2 Updates/Second. Ambient < -25°C: 1 Update/5 Seconds
Externally Powered Backlight	Voltage Range: 9-36 VDC
Display Orientation	Display may be mounted at 90° increments up to 270° from default orientation
Over Range	Display flashes 99999
Under Range	Display flashes -9999
Programming Method	Four SafeTouch® through-glass buttons when cover is installed. Four internal pushbuttons when cover is removed.
Noise Filter	Programmable - Lo, Med, Hi, or Off
Recalibration	Recalibration is recommended at least every 12 months.
Max./Min. Display	Max/Min readings reached by the process are stored until reset by the user or until power to the meter is turned off.
Password	Programmable password restricts modification of programmed settings.
Advanced Functions	Live input calibration, linearization, square root, or programmable exponent.
Alarm Indication	Flashing display plus HI/LO indicators
Non-Volatile Memory	All programmed settings are stored in non-volatile memory for a minimum of ten years if power is lost.
Normal Mode Rejection	64 dB at 50/60 Hz
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
Enclosure	Explosion-proof die-cast aluminum with glass window, corrosion resistant epoxy coating, color: blue. NEMA 4X, 7, & 9, IP68. Copper-free (0.3%). Two ¾" NPT threaded conduit openings. One ¾" NPT metal conduit plug with 0.03 ft hex key fitting installed
Mounting	May be mounted directly to conduit. Two slotted flanges for wall mounting or NPS 1½" to 2½" or DN 40 to 0.21 ft pipe mounting.