



## INDICATOR/ CONTROLLER

# Explosion-Proof Large Display Loop-Powered Indicator

## TEK-LCD 7805B



### 1 FEATURES

- 4-20 mA input
- Modern, sleek and practical enclosure for safe areas
- 3½ digits, 1" (0.08 ft) display
- Display mountable at 0°, 90°, 180°, and 270°
- Easy calibration and installation
- Loop-powered backlight option
- 1 V drop (4 V with backlight)
- Explosion-Proof, IP68, NEMA 4X Enclosure
- Flanges for wall or pipe mounting
- HART protocol transparent
- Operates from -40 °F to 167 °F (-40 °C to 75 °C)

### 3 APPLICATIONS

- Batching
- Dosing
- Loading
- Blending

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### 2 SPECIFICATION

Input range	4-20 mA
Display update rate	2.5 Updates/Second
Display orientation	Mounted at 90° increments up to 270° from default orientation
Voltage range	9-36 VDC
Over range	Display reads 1 on the left most digit
Recalibration	Recommended at least every 12 months
Programming method	Four front mounted rotary control dials accessed when the cover is removed
Normal mode rejection	60 dB rejection ratio
Operating temperature range	-40 °F to 167 °F (-40 °C to 75 °C)
Storage temperature range	-40 °F to 167 °F (-40 °C to 75 °C)
Relative humidity	0 to 90% non-condensing
Connections	Screw terminals accept 12 to 22 AWG wire
Accuracy	±0.1% of full span ±1 count
Temperature drift	150 PPM/°F from -40 °F to 167 °F (-40 °C to 75 °C) ambient
Calibration range	4 mA input: -1000 to +1000; 20 mA between 20 and 2000 counts greater than 4 mA display. Two point linear display span
HART transparency	Analog input will not interfere with existing HART communications on the wired 4-20 mA signal
Enclosure	Explosion-proof die cast aluminum with glass window, 0.30% max copper content, corrosion resistant epoxy coating, color: blue. NEMA 4X, IP68. Two ¾" NPT threaded conduit openings. One ¾" NPT nickel plated brass conduit 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 DN 0.13 ft to 0.21 ft pipe mounting
Weight	5.00 lbs (80 oz, 2.27 kg)
Dimensions	5.65" x 5.25" x 4.86" (0.47 ft x 0.43 ft x 0.40 ft) (W x H x D)
Maximum voltage drop	1 VDC @ 20 mA without backlight; 4 VDC @ 20 mA with loop-powered backlight.
Input overload	Over current protection to 2 A max