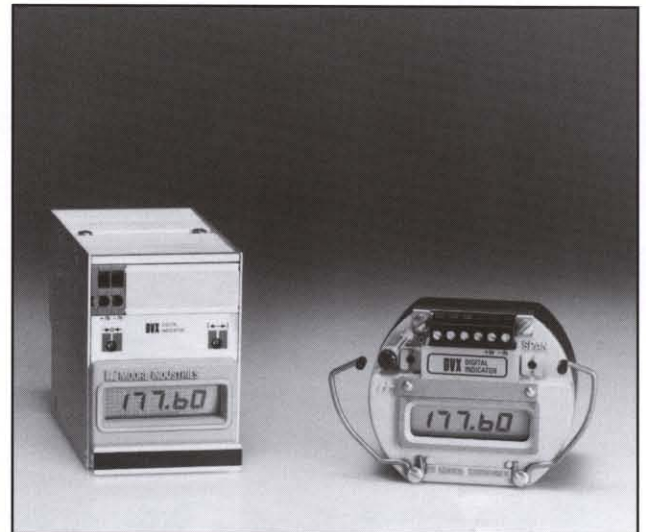


Description

Moore Industries' DVX 2-Wire Digital Indicator accepts a 4-20mA or 10-50mA current input from a process measurement device (e.g., flowmeter, transmitter, etc.). It scales the signal to represent engineering units, and then displays the result on a bright, easy-to-read 3-1/2 active-digit LCD. The numerals are formatted with a selectable trailing dummy zero which is used as an aid in scaling engineering units.

The loop-powered DVX is functionally based on a 2000-count, dual-slope, integrating analog-to-digital converter that provides a display range of -19990 to +19990 (including dummy zero). The design also rejects electrical interference common in industrial environments.

Highly versatile, the DVX provides the option of either being custom scaled as a percent, or directly scaled in engineering units for indicating process measurements such as pressure, temperature and flow. Span, zero, input range, display range, decimal point position, and polarity can also be easily field selected and changed.



The DVX's hockey-puck housing fits in an explosion-proof enclosure alone or with a transmitter. The DIN housing is perfect for control room applications.

Features

- **Easy-to-read display.** Large 3-1/2 active-digit LCD features black numerals over a reflective background for easy viewing of engineering units.
- **Field-selectable operating parameters.** Span, zero, dummy zero, decimal point selections, and polarity can be quickly selected and changed.
- **RFI/EMI protection.** When ordered with the RFI/EMI option, critical loops can be protected from the harmful affects of radio frequency and electromagnetic interference.

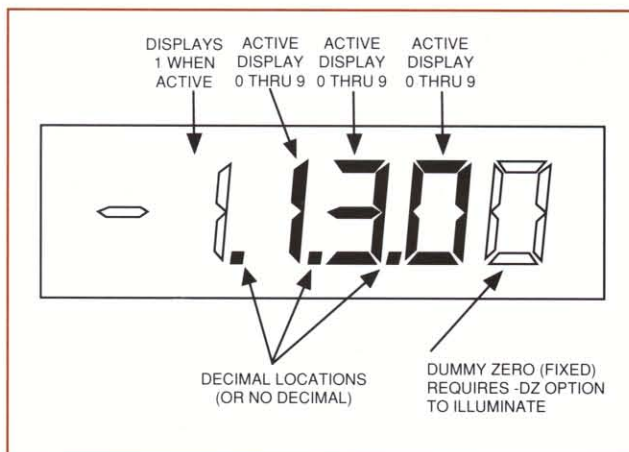


Figure 1. The DVX features a large 3-1/2 active-digit LCD.

Certifications



CSA General Location; Explosion-Proof, Division I, Groups B, C, and D



FM Explosion-proof, Class I, Division I, Groups B, C, and D (refer to "FM" prefix on enclosures)



CENELEC Flameproof, EExd IIC T6 (refer to "F" prefix on enclosures)

SAA Explosion-proof, Ex d IIC T6 IP66 (refer to "S" prefix on enclosures)

Specifications

Characteristics		Ambient Temperature	Options (continued)
<p>Display Type: LCD, 8.9mm (0.35-inch) high black digits over a reflective background</p> <p>Format: 3-1/2 active digits with selectable trailing dummy zero for scaling purposes</p> <p>Range: -19990 to +19990 (includes dummy zero)</p> <p>Decimal Points: 3 positions (jumper-selectable)</p> <p>Zero Offset: Zero may be offset by -2500 to +2500 counts (including dummy zero)</p> <p>Span Range: Any zero offset and span can be displayed to a maximum of 3-1/2 digit resolution (2000 counts); Continuously adjustable up to 2000 counts from Zero Offset (Example: If Zero Offset is -250, Span can range from -250 to +1750)</p>	<p>Range: -40°C to +85°C (-40°F to +185°F)</p> <p>Effect: ±0.01%/°C (±0.005%/°F) maximum over above range</p>	<p>-RO Reversible output, minimum sign displayed</p> <p>-RTB Removable terminal block (DIN housing only)</p>	
	<p>Adjustments Type: External multiurn potentiometers</p> <p>Span and Zero: Used in conjunction with a jumper to select Offset and Span ranges to set up the unit for any desired configuration with the active operating range, ±1 count</p>		<p>Housing DIN Aluminum DIN-style housing mounts on G-type (DIN 50035-G32) rail; -FA or -RA option required (see DIN housing sheet for details)</p> <p>HP Hockey-puck housing with spring clips for mounting in an explosion-proof enclosure (see FL/HP data sheet for details)</p> <p>FL Hockey-puck housing with flanges for surface or relay track mounting</p> <p>HPD Hockey-puck housing with bottom clips for mounting on top of a transmitter in a glass cover, high dome explosion-proof enclosure</p> <p>2LG* Hockey-puck housing mounted in a 2-hub, glass cover, low come, explosion-proof enclosure (see the EXPL data sheet for details)</p> <p>2HG* HPD housing mounted in a 2-hub, high dome, glass cover explosion-proof enclosure; a 2-wire transmitter mounts under the indicator (see the EXPL data sheet for details)</p>
<p>Performance Calibration Capability: ±0.1% of reading, ±1 count</p> <p>Voltage Drop: 2.5V maximum</p> <p>Input Protection: Maximum forward current overload, 0.2 amps; maximum reverse current, 1.0 amps; surge current, 2 amps for 2 microseconds, maximum, non-repetitive</p> <p>Common Mode Rejection: 120dB</p> <p>Common Mode Voltage: 500V</p> <p>Normal Mode Rejection (@ 50/60Hz): 46dB</p>	<p>Weight 454 grams (1 pound)</p>	<p>*F (prefix) added to model number indicates CENELEC approved EExd IIC T6 (e.g., F2LG).</p> <p>FM (prefix) added to model number indicates FM approved Class I, Division I, Groups B, C, D (e.g., FM2LG).</p> <p>SAA (prefix) on the 2LG or 2HG enclosure indicates SAA approved Ex d IIC T6 IP66 (e.g., SAA2LG).</p> <p>P (suffix) added to model number indicates unit comes equipped with a base plate and U-bolts for mounting on a 2-inch pipe.</p>	
	Ordering Specifications		
	<p>Unit DVX Digital Indicator</p>		
	<p>Input 4-20MA 10-50MA (jumper-selectable)</p>		
	<p>Output Specify desired range between -19990 to +19990 (includes dummy zero)</p>		
	<p>Power 2.5VLP 2.5 volts loop-powered (input side)</p>		
	<p>Options -DZ Dummy zero displayed -FA Front accessible terminal block (either -FA or -RA required on DIN housing) -RA Rear accessible terminal block (either -RA or -FA required on DIN housing) -RF RFI/EMI protection rates 50V/m - abc = 0.1% F.S. when tested according to SAMA Standard PMC 33.1</p>		

To order, specify: Unit / Input / Display / Power / Options [Housing]

Model number example: DVX / 4-20MA / 0-100.0 / 2.5VLP / [2LG]