

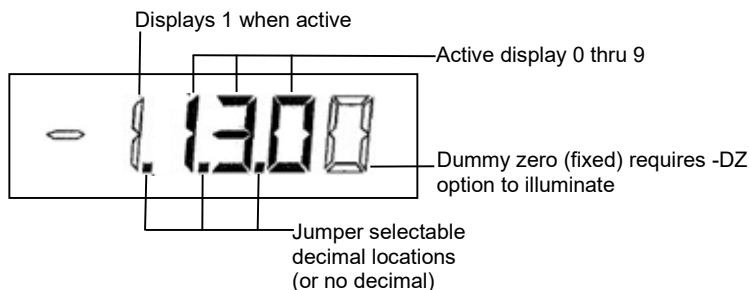
► Description

The DSX loop-powered digital indicator accepts a 4-20mA current input signal from a process measurement device such as a flowmeter, temperature transmitter, or level transmitter. It scales the signal to represent engineering units and then displays the resulting signal in digital form on a 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.

Decimal units may be expressed in tenths, hundredths or thousandths. The DSX is functionally based on a 2000-count, dual slope, integrating analog-to-digital converter that provides for an indicator display range from -19990 to +19990 (including the dummy zero). In addition, the LCD display of the DSX is updated at a rate of 2.5 times per second, nominal. For a full span step input, display response is stabilized in one second nominal.

An aluminum hockey-puck housing is standard for the DSX and is available with either spring clips for mounting in an explosion-proof enclosure or with mounting flanges for relay track or surface mounting. Two or 3-hub explosion-proof enclosures are available and can be ordered with either a low-glass dome for on-site display or a high-glass dome for on-site display while mounted with a separate Moore Industries transmitter. All explosion-proof housings are available with or without a pipe mounting assembly for mounting on a 2" pipe. An oil tight NEMA 12 enclosure is also offered.

Figure 1. DSX 3-1/2 Active-Digit LCD



The DSX is offered in a field-mount hockey-puck housing.

► Features

- **Low voltage drop.** One volt maximum voltage drop reduces power supply requirements and keeps loop-resistance at a minimum.
- **East-to-read display.** Large 3-1/2 active-digit LCD features 0.35-inch black numerals over a reflective background for easy viewing of engineering units.

► Specifications

Display	Performance	Ambient Effects	Adjustments	Weight
<p>Type: LCD; 8.9 mm (0.35 in.) high black digits over reflective background</p> <p>Format: 3-1/2 active digits with selectable trailing dummy zero for scaling purposes.</p> <p>Range: -19990 to +19990 with minimum span of 2000 counts (includes dummy zero). Consult factory for availability of non-zeros.</p> <p>Decimal Points: 3 positions, DIP switch selectable</p> <p>Over-range: 3 least significant active digits blank out when the display is driven past ± 1999</p> <p>Update Rate: 2.5 times per-second, nominal</p> <p>Zero Offset: $\pm 100\%$ of adjusted display range</p>	<p>Accuracy: 0% to 100% $\pm 0.1\%$ of span ± 1 count</p> <p>Temperature Range: Accuracy specified 0°C to 70°C (32°F to 158°F) ambient only. Unit may be operated or stored at -40°C to 85°C (-40°F to 185°F)</p>	<p>Ambient Temperature Effect: $\pm 0.02\%$ of span /°C, maximum</p>	<p>Span and Zero: External Multi-turn potentiometers</p> <p>Display: Internal jumpers allow user configuration of the display between 2000 to 19990.</p>	<p>Weight: 454 grams (1 pound)</p>

► Ordering Information

Unit	Input	Output	Power	Options	Housing
DSX Digital Indicator	4-20MA 4-20mA	Specify desired range within -19990 to +19990 when placing order. See the model number example below.	1.0VLP 1.0 Volt, Loop Powered	-DZ Dummy zero displayed following last active digit	<p>FL Aluminum case (HP) with mounting flanges for relay-track or surface mounting</p> <p>2LG(*) Explosion proof, low-glass dome, 2-hub</p> <p>2HG(*) Explosion proof, high-glass dome, 2-hub</p> <p>3LG(*) Explosion proof, low-glass dome, 3-hub</p> <p>3HG(*) Explosion proof, high-glass dome, 3-hub</p> <p>FLD Aluminum case (HP) with mounting flanges suitable for 3-1/2 inch relay-track mounting</p> <p>OTH Oil tight, NEMA 12 enclosure</p> <p>* A suffix (comes supplied with 2" pipe mount hardware)</p> <p>FM prefix on explosion-proof enclosures indicates FM approval (e.g. FM2LG)</p> <p>P suffix indicates unit comes equipped with base plate and U-bolts for mounting on a 2-inch pipe (e.g. 2LGP)</p>

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

Model Number Example: DSX / 4-20MA / 0.00-199.90 / 1.0VLP / -DZ [FL]

► Certifications

DSX-HP in BH or SB2 Housing



FM Approvals (FM Global Group): Explosion-Proof & Dust/Ignition-Proof

Class I, Division 1, Groups A*, B, C & D

Class II & III, Division 1, Groups E, F & G

Environmental Protection: NEMA 4X & IP66 T6 @ 60°C Maximum Operating Ambient

*For Group A applications, seal all conduits within 18"



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