



LDM

LOCAL DISPLAY MODULE FOR PRESSURE TRANSDUCERS

The MKS Local Display Modules (LDM) are designed to be used with many MKS 700 and 800 Baratron[®] pressure transducers to provide a local display of pressure in real time and in the customer's specified engineering units. They are typically used when the host controller does not have a real-time data display, is mounted remotely from the transducer, or does not have a multi-channel display. These displays reduce the downtime for system operators and process engineers by always providing an easy-to-read display of the gas line pressure. Because they are installed "in line" between the pressure transducer and host system/power supply, no additional cabling is needed.

Features & Benefits

- Large red LED or LCD displays for easy reading, even from a distance
- LDM-D offers user-configurable engineer ing units such as mmHg/Torr, kPa, and PSI
- Decimal point with automatic range switching, negative values, and overrange indication
- Installed inline between transducer and host no additional cables needed.
- Small size allows placement on individual gas sticks
- Optional panel mounting
- Wide operating range to match applicable
 MKS Baratron pressure transducers

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Two different models are available. The LDM-A model uses advanced analog electronics, and has a 9-pin D-subminiature, 15-pin high density D-subminiature, or Bendix[®] electrical connector that can mount directly to the mating electrical connectors of MKS 740B, 742B, 750B, 752B, 840B, 842B, 850B, 852B, 870B, 872B, AA07A and AA08A Baratron pressure transducers. For applications with space constraints around the gas line, it can also be panel-mounted remotely and connected to the transducer via a separate cable. Pressure ranges from 10 Torr to 3000 PSI are available, as are a wide range of options to allow custom configuration to nearly any requirement. Versions with 0-10VDC or 0-5VDC output have a high-visibility red LED display and operate on +13 to 32VDC input power. while models with 4-20 mA output signal use a large LCD display and require +13 to 36VDC excitation.

The LDM-D is a low-cost model that uses microprocessorcontrolled electronics to generate a brilliant red LED display that can be easily switched to show the transducer's pressure in alternate engineering units such as bar, kPa, and Torr/mm Hg. The LDM-D operates on input voltages of +12 to +32VDC, and it has a 0-10VDC output. The LDM-D also can be mounted directly to compatible MKS 740B, 742B, 750B, 752B, 840B, 842B, 850B, 852B, 870B, 872B, AA07A and AA08A Baratron pressure transducers without requiring a separate power and signal cable to the host assuming that the transducer has a 15-pin high-density D-subminiature electrical connector. Pressure ranges of 1000 Torr (absolute), 60 PSIA, and 100 PSIA are available, as is mounting hardware to permit remote panel mounting and cables to connect to the pressure transducer.

Both devices are calibrated at the factory and thus must be used with a pressure transducer calibrated in the same units of measurement. They can be used successfully with a wide variety of competitive pressure transducers. Zero and span adjustments are easily accomplished via the front-mounted potentiometers, and the displays are housed in rugged enclosures that provide excellent EMI/RFI isolation to meet compliance codes used worldwide.



Dimensional Drawing -

Note: Unless otherwise specified, dimensions are nominal values in inches (mm referenced).

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Specifications

	LDI	LDM-A	
Output Signal	0-10VDC and 0-5VDC	4-20mA	0-10VDC
Display Type	3.5 place red LED, 7-segment, 0.37 inch (9.4 mm) tall. Supports minus (-) sign in first digit.	3.5 place LCD, 7-segment, 0.37 inch (9.4mm) tall. Supports minus (-) sign in first digit.	4 place red LED, 16-segment, 0.50 inch (12mm) tall. Supports minus (-) sign in first digit.
Pressure Ranges	All transducer ranges - absolute, gage, or compound calibration	All transducer ranges - absolute, gage, or compound calibration	1000 Torr (absolute), 60 PSIA, and 100 PSIA
Display Units	psi, in Hg, mm Hg (Torr), bar, Pa, or in H ₂ O	psi, in Hg, mm Hg (Torr), bar, Pa, or in H ₂ O	PSIA with front-panel switch for kPa, bar, or mmHg/Torr
Electrical Connectors • Transducer (female)	9-pin D-subminiature, 15-pin HD D-subminiature, or Bendix	9-pin D-subminiature, 15-pin HD D-subminiature, or Bendix	15-pin HD D-subminiature
• Display (male)	9-pin D-subminiature, 15-pin HD D-subminiature, Bendix, or 6 ft (2.3 m) flying leads	9-pin D-subminiature, 15-pin HD D-subminiature, Bendix, or 6 ft (2.3 m) flying leads	15-pin HD D-subminiature
Signal Input	0-10VDC or 0-5VDC signal, +13 to 32VDC power @ 15 mA max	4-20 mA signal, 2-wire loop pow- ered, +13 to 36VDC excitation, max voltage drop 3.3V	0-10VDC signal, +12 to 32VDC power @ 15 mA max
Accuracy	\pm 0.1% of Reading \pm (1) digit	± 0.1% of Reading ±(1) digit	\pm 0.1% of Reading \pm (1) digit
Temperature Coefficient	0.2% of Full Scale/°C	0.2% of Full Scale/°C	0.2% of Full Scale/°C
Operating Environment	0° to 50°C (32° - 122°F), 0% to 70% RH (noncondensing)	0° to 50°C (32° - 122°F), 0% to 70% RH (noncondensing)	0° to 50°C (32° - 122°F), 0% to 70% RH (noncondensing)



Ordering Information

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Calibration Reference A D Absolute A D Absolute with switchable engineering units D D Input/Output +12-32VDC/0-10VDC 2 2 Transducer Connector/Input Connector 15-pin HD D-sub/15-pin HD D-sub CC CC Mounting CC CC CC	100 psi	12P		
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Absolute with switchable engineering units D Input/Output +12-32VDC/0-10VDC 2 2 2 Transducer Connector/Input Connector 2 15-pin HD D-sub/15-pin HD D-sub CC Mounting CC	Absolute	Α	D	
Input/Output +12-32VDC/0-10VDC 2 2 Transducer Connector/Input Connector 15-pin HD D-sub/15-pin HD D-sub CC Mounting CC CC	Absolute with switchable engineering units	D	D	
+12-32VDC/0-10VDC 2 2 2 Transducer Connector/Input Connector 15-pin HD D-sub/15-pin HD D-sub CC CC	Input/Output			
Transducer Connector/Input Connector	+12-32VDC/0-10VDC	2	2	
15-pin HD D-sub/15-pin HD D-sub CC CC	Transducer Connector/Input Connector			
Mounting	15-pin HD D-sub/15-pin HD D-sub	CC	CC	
	Mounting			

1

2



Transducer

Panel Mounted

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MKS Instruments, Inc. Global Headquarters

2 Tech Drive, Suite 201 Andover, MA 01810 Tel: 978.645.5500 Tel: 800.227.8766 (in U.S.A.) Web: www.mksinst.com

MKS Instruments, Inc. Pressure & Vacuum Measurement Solutions

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Six Shattuck Road Andover, MA 01810 Tel: 978.975.2350

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