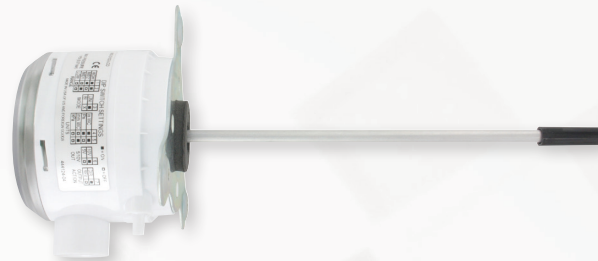




## SERIES MS | MAGNESENSE® DIFFERENTIAL PRESSURE TRANSMITTER



Wall mount



Duct mount

### FEATURES/BENEFITS

- Field upgradeable LCD-No need to order two separate transmitters
- Field selectable ranges in metric or English
- Digital push button zero and span
- Adjustable digital dampening
- Field selectable air velocity mode
- Ability to select a square root output for use with pitot tubes and other similar flow sensors

### APPLICATIONS

- Pressure and flow
- Monitoring air velocity
- Fans and blowers

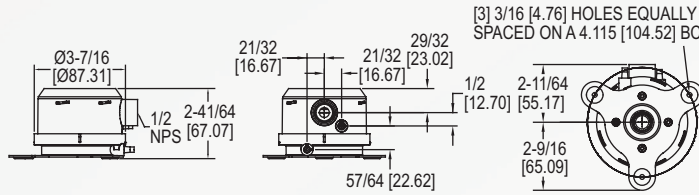
### DESCRIPTION

The **Series MS Magnesense® Differential Pressure Transmitter** is an extremely versatile transmitter for monitoring pressure and air velocity. Along with the described features, the patented magnetic sensing technology provides exceptional long term performance and enables the Magnesense® Differential Pressure Transmitter to be the single solution for your pressure and flow applications.

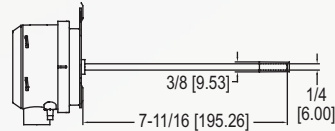
### SPECIFICATIONS

<b>Service</b>	Air and non-combustible compatible gases.
<b>Wetted Materials</b>	Consult factory.
<b>Accuracy</b>	±1% for 0.25" (50 Pa), 0.5" (100 Pa), 2" (500 Pa), 5" (1250 Pa), 10" (2 kPa), 15" (3 kPa), 25" (5 kPa); ±2% for 0.1" (25 Pa), 1" (250 Pa) and all bidirectional ranges.
<b>Stability</b>	±1% FS/year.
<b>Temperature Limits</b>	0 to 150°F (-18 to 66°C).
<b>Pressure Limits</b>	1 psi maximum, operation; 10 psi, burst.
<b>Power Requirements</b>	10-35 VDC (2-wire); 17-36 VDC or isolated 21.6-33 VAC (3-wire).
<b>Response Time</b>	300 ms.
<b>Zero &amp; Span Adjustments</b>	Digital push button.
<b>Loop Resistance</b>	Current output: 0-1250 Ω max; Voltage output: min. load resistance 1 kΩ.
<b>Current Consumption</b>	40 mA max.
<b>Display (optional)</b>	4 digit LCD.
<b>Electrical Connections</b>	4-20 mA, 2-wire: European style terminal block for 16 to 26 AWG. 0-10 V, 3-wire: European style terminal block 16 to 22 AWG.
<b>Electrical Entry</b>	1/2" NPS thread. Accessory: Cable gland for 5 to 10 mm diameter cable.
<b>Process Connection</b>	3/16" (5 mm) ID tubing. Maximum OD 9 mm.
<b>Enclosure Rating</b>	NEMA 4X (IP66).
<b>Mounting Orientation</b>	Diaphragm in vertical position.
<b>Weight</b>	8.0 oz (230 g).
<b>Agency Approvals</b>	CE.

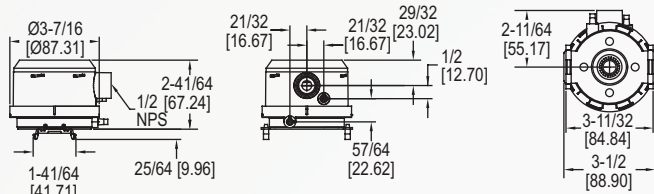
## DIMENSIONS



Standard MS with optional LCD

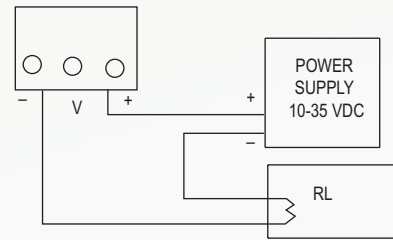


MS with optional LCD and static probe

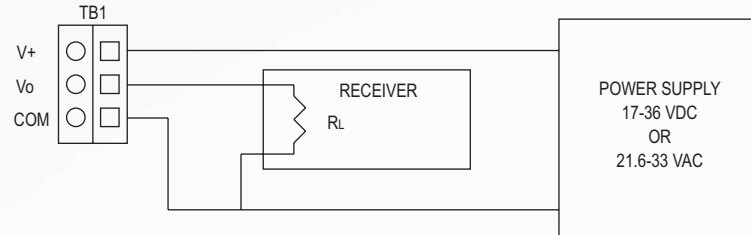


DIN mount bracket

## WIRING DIAGRAM



2-wire operation (current output)



3-wire operation (voltage output)

## HOW TO ORDER

Use the **bold** characters from the chart below to construct a product code.

<p><b>SERIES</b></p> <p><b>MS</b> - Magnesense® differential pressure transmitter</p> <p><b>OUTPUT</b></p> <p><b>-0</b>: Bidirectional unit, 4-20 mA  <b>-1</b>: Positive only unit, 4-20 mA  <b>-2</b>: Bidirectional unit, 0-10 V  <b>-3</b>: Positive only unit, 0-10 V  <b>-6</b>: Bidirectional unit, 0-5 V  <b>-7</b>: Positive only unit, 0-5 V  <b>-8</b>: Bidirectional unit, 0-5 V output 0-12 VDC input  <b>-9</b>: Positive only unit, 0-5 V output 0-12 VDC input</p> <p><b>PRESSURE RANGE</b></p> <p><b>1</b>: High range 1, 2, 5 in w.c. &amp; 250, 500, 1250 Pa  <b>2</b>: Low range 0.1, 0.25, 0.5 in w.c. &amp; 25, 50, 100 Pa  <b>3</b>: 10 in w.c. &amp; 2 kPa  <b>4</b>: 15 in w.c. &amp; 3 kPa  <b>5</b>: 25 in w.c. &amp; 5 kPa</p>	<p><b>MS</b>   <b>-0</b>   <b>1</b>   <b>1</b>   <b>-AT</b></p>	<p><b>OPTIONS</b></p> <p><b>-AT</b>: Aluminum tag  <b>-DJE</b>: Velocity mode selectable decimal place (English units)  <b>-DJM</b>: Velocity mode selectable decimal place (metric units)  <b>-DS</b>: MS-DS desiccant cover  <b>-FC</b>: Factory calibration  <b>-GLD</b>: Cable gland accessories pack  <b>-LCD</b>: Liquid crystal display  <b>-NIST</b>: NIST traceable calibration certificate  <b>-ST</b>: Stainless steel tag  <b>-WO</b>: LCD cover without LCD display</p> <p><b>MOUNTING</b></p> <p><b>1</b>: Wall mount  <b>2</b>: Duct mount  <b>3</b>: DIN mounting bracket</p>
--	---	---

## ACCESSORIES

Model	Description
<b>A-151</b>	Cable gland for 5 to 10 mm cable
<b>A-435</b>	Field upgradeable LCD
<b>A-480</b>	Plastic static pressure tip
<b>A-481</b>	Installer kit. Includes 2 plastic static pressure tips and 7 ft (2.1m) of PVC tubing
<b>A-489</b>	4" straight static pressure tip with flange
<b>A-302F-A</b>	303 SS static pressure tip with mounting flange. For 3/16" ID rubber or plastic tubing. 4" insertion depth. Includes mounting screws
<b>SCD-PS</b>	100-240 VAC/VDC to 24 VDC power supply

## ORDER ONLINE TODAY!

Product/SeriesMS



DWYER INSTRUMENTS, INC.