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**Pressure Sensor Ratings**

|                                                       |                 |
|-------------------------------------------------------|-----------------|
| <b>Supply Voltage Vs, max</b>                         | 16 Vdc          |
| <b>Common-mode pressure</b>                           | -10 to +10 psig |
| <b>Lead Temperature, max<br/>(soldering 2-4 sec.)</b> | 270°C           |

**Environmental Specifications**

|                           |                                 |
|---------------------------|---------------------------------|
| <b>Temperature Ranges</b> |                                 |
| <b>Compensated</b>        | 0 to 50(70)° C                  |
| <b>Operating</b>          | -25 to 85° C                    |
| <b>Storage</b>            | -40 to 125° C                   |
| <b>Humidity Limits</b>    | 0 to 95% RH<br>(non condensing) |

**Standard Pressure Ranges**

| Part Number   | Operating Pressure | Nominal Span | Proof Pressure | Burst Pressure |
|---------------|--------------------|--------------|----------------|----------------|
| 0.5 INCH-D-MV | 0 - 0.5" H2O       | 10mV         | 100 "H2O       | 200 "H2O       |
| 1 INCH-D-MV   | 0 - 1" H2O         | 10 mV        | 100 "H2O       | 200 "H2O       |
| 2 INCH-D-MV   | 0 - 2" H2O         | 10mv         | 100 "H2O       | 200 "H2O       |
| 5 INCH-D-MV   | 0 - 5" H2O         | 20 mV        | 200 "H2O       | 300 "H2O       |
| 10 INCH-D-MV  | 0 - 10" H2O        | 20 mV        | 200 "H2O       | 300 "H2O       |
| 20 INCH-D-MV  | 0 - 20" H2O        | 20 mV        | 200 "H2O       | 500 "H2O       |
| 30 INCH-D-MV  | 0 - 30" H2O        | 20 mV        | 200 "H2O       | 800 "H2O       |

**Performance Characteristics for 0.5 INCH-D-MV**

| Parameter, note 1                           | Minimum | Nominal | Maximum | Units |
|---------------------------------------------|---------|---------|---------|-------|
| Operating Range, differential pressure      | --      | 0.5     | --      | "H2O  |
| Output Span, @ 0.5"H2O, note 5              | 9.0     | 10.0    | 11.0    | mV    |
| Offset Voltage @ zero differential pressure | --      | --      | ±500    | uV    |
| Offset Temperature Shift (0°C-50°C), note 2 | --      | --      | ±250    | uV    |
| Offset Warm-up Shift, note 3                | --      | --      | ±100    | uV    |
| Offset Position Sensitivity (1g)            | --      | --      | ±5.0    | uV    |
| Offset Long Term Drift (one year)           | --      | --      | ±200    | uV    |
| Linearity, hysteresis error, note 4         | --      | 0.05    | 0.25    | %fs   |
| Full Scale Shift (0°C-50°C), note 2         | --      | --      | ±200    | uV    |

**Performance Characteristics for 1 INCH-D-MV**

| Parameter, note 1                           | Minimum | Nominal | Maximum | Units |
|---------------------------------------------|---------|---------|---------|-------|
| Operating Range, differential pressure      | --      | 1.0     | --      | "H2O  |
| Output Span, @ 1"H2O, note 5                | 9.0     | 10.0    | 11.0    | mV    |
| Offset Voltage @ zero differential pressure | --      | --      | ±500    | uV    |
| Offset Temperature Shift (0°C-50°C), note 2 | --      | --      | ±250    | uV    |
| Offset Warm-up Shift, note 3                | --      | --      | ±100    | uV    |
| Offset Position Sensitivity (1g)            | --      | --      | ±50     | uV    |
| Offset Long Term Drift (one year)           | --      | --      | ±200    | uV    |
| Linearity, hysteresis error, note 4         | --      | 0.05    | 0.25    | %fs   |
| Full Scale Shift (0°C-50°C), note 2         | --      | --      | ±200    | uV    |

**Performance Characteristics for 2 INCH-D-MV**

| Parameter, note 1                           | Minimum | Nominal | Maximum | Units             |
|---------------------------------------------|---------|---------|---------|-------------------|
| Operating Range, differential pressure      | --      | 2.0     | --      | "H <sub>2</sub> O |
| Output Span, note 5                         | 9.0     | 10.0    | 11.0    | mV                |
| Offset Voltage @ zero differential pressure | --      | --      | ±500    | uV                |
| Offset Temperature Shift (0°C-50°C), note 2 | --      | --      | ±250    | uV                |
| Offset Warm-up Shift, note 3                | --      | --      | ±100    | uV                |
| Offset Position Sensitivity (1g)            | --      | --      | ±50     | uV                |
| Offset Long Term Drift (one year)           | --      | --      | ±200    | uV                |
| Linearity, hysteresis error, note 4         | --      | 0.05    | 0.25    | %fs               |
| Full Scale Shift (0°C-50°C), note 2         | --      | --      | ±200    | uV                |

**Performance Characteristics for 5 INCH-D-MV**

| Parameter, note 1                           | Minimum | Nominal | Maximum | Units             |
|---------------------------------------------|---------|---------|---------|-------------------|
| Operating Range, differential pressure      | --      | 5.0     | --      | "H <sub>2</sub> O |
| Output Span, note 5                         | 19.0    | 20.0    | 21.0    | mV                |
| Offset Voltage @ zero differential pressure | --      | --      | ±500    | uV                |
| Offset Temperature Shift (0°C-50°C), note 2 | --      | --      | ±150    | uV                |
| Offset Warm-up Shift, note 3                | --      | --      | ±50     | uV                |
| Offset Position Sensitivity (1g)            | --      | --      | ±10     | uV                |
| Offset Long Term Drift (one year)           | --      | --      | ±100    | uV                |
| Linearity, hysteresis error, note 4         | --      | 0.05    | 0.25    | %fs               |
| Full Scale Shift (0°C-50°C), note 2         | --      | --      | ±200    | uV                |

**Performance Characteristics for 10 INCH-D-MV**

| Parameter, note 1                           | Minimum | Nominal | Maximum | Units             |
|---------------------------------------------|---------|---------|---------|-------------------|
| Operating Range, differential pressure      | --      | 10.0    | --      | "H <sub>2</sub> O |
| Output Span, note 5                         | 19.0    | 20.0    | 21.0    | mV                |
| Offset Voltage @ zero differential pressure | --      | --      | ±500    | uV                |
| Offset Temperature Shift (0°C-70°C), note 2 | --      | --      | ±150    | uV                |
| Offset Warm-up Shift, note 3                | --      | --      | ±50     | uV                |
| Offset Position Sensitivity (1g)            | --      | --      | ±5      | uV                |
| Offset Long Term Drift (one year)           | --      | --      | ±100    | uV                |
| Linearity, hysteresis error, note 4         | --      | 0.05    | 0.25    | %fs               |
| Full Scale Shift (0°C-70°C), note 2         | --      | --      | ±200    | uV                |

## Performance Characteristics for 20 INCH-D-MV

| Parameter, note 1                           | Minimum | Nominal | Maximum | Units |
|---------------------------------------------|---------|---------|---------|-------|
| Operating Range, differential pressure      | --      | 20.0    | --      | "H2O  |
| Output Span, note 5                         | 19.0    | 20.0    | 21.0    | mV    |
| Offset Voltage @ zero differential pressure | --      | --      | ±500    | uV    |
| Offset Temperature Shift (0°C-70°C), note 2 | --      | --      | ±150    | uV    |
| Offset Warm-up Shift, note 3                | --      | --      | ±50     | uV    |
| Offset Position Sensitivity (1g)            | --      | --      | ±5      | uV    |
| Offset Long Term Drift (one year)           | --      | --      | ±100    | uV    |
| Linearity, hysteresis error, note 4         | --      | 0.05    | 0.25    | %fs   |
| Full Scale Shift (0°C-70°C), note 2         | --      | --      | ±200    | uV    |

## Performance Characteristics for 30 INCH-D-MV

| Parameter, note 1                           | Minimum | Nominal | Maximum | Units |
|---------------------------------------------|---------|---------|---------|-------|
| Operating Range, differential pressure      | --      | 30.0    | --      | "H2O  |
| Output Span, note 5                         | 19.0    | 20.0    | 21.0    | mV    |
| Offset Voltage @ zero differential pressure | --      | --      | ±500    | uV    |
| Offset Temperature Shift (0°C-70°C), note 2 | --      | --      | ±150    | uV    |
| Offset Warm-up Shift, note 3                | --      | --      | ±50     | uV    |
| Offset Position Sensitivity (1g)            | --      | --      | ±5      | uV    |
| Offset Long Term Drift (one year)           | --      | --      | ±100    | uV    |
| Linearity, hysteresis error, note 4         | --      | 0.05    | 0.25    | %fs   |
| Full Scale Shift (0°C-70°C), note 2         | --      | --      | ±200    | uV    |

### Specification Notes

NOTE 1: ALL PARAMETERS ARE MEASURED AT 12.0 VOLT EXCITATION, FOR THE NOMINAL FULL SCALE PRESSURE AND ROOM TEMPERATURE UNLESS OTHERWISE SPECIFIED. PRESSURE MEASUREMENTS ARE WITH POSITIVE PRESSURE APPLIED TO PORT B.

NOTE 2: SHIFT IS RELATIVE TO 25°C.

NOTE 3: SHIFT IS WITHIN THE FIRST HOUR OF EXCITATION APPLIED TO THE DEVICE.

NOTE 4: MEASURED AT ONE-HALF FULL SCALE RATED PRESSURE USING BEST STRAIGHT LINE CURVE FIT.

NOTE 5: THE VOLTAGE ADDED TO THE OFFSET VOLTAGE AT FULL SCALE PRESSURE.

**Pressure Response: for any pressure applied the response time to get to 90% of pressure applied is typically less than 100 useconds.**

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- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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