

**Operating Specifications (Analog)**

(Unless otherwise specified, all parameters are measured at 25°C @ 5.0V applied)

| Parameter                    | Symbol | Min   | Typ  | Max  | Units    | Notes/Conditions                                |
|------------------------------|--------|-------|------|------|----------|---|
| Zero offset <sup>1</sup>     |        | -15   |      | 15   | mV/V     | mV Output only                                  |
|                              |        | 300   | 500  | 700  | mV       | 0.5-4.5V Output only                            |
| Full scale span <sup>1</sup> |        | 16    | 20   | 24   | mV/V     | mV Output only                                  |
|                              |        | 3800  | 4000 | 4200 | mV       | 0.5-4.5V Output only                            |
| Non-linearity                |        | -1    |      | 1    | %Span    | BFSL  |
| Hysteresis                   |        | -0.8  |      | 0.8  | %Span    |   |
| Zero repeatability           |        | -0.8  |      | 0.8  | %Span    |   |
| Span repeatability           |        | -0.8  |      | 0.8  | %Span    |   |
| Thermal shift for zero       |        | -0.05 |      | 0.05 | %Span/°C | Reference to 25°C, over compensated temperature |
| Thermal shift for span       |        | -0.05 |      | 0.05 | %Span/°C |   |
| Cycle life                   |        | 1E+6  |      |      |          | 0 to full scale cycles                          |
| Deflection at rated load     |        |       |      | 0.03 | mm       |   |
| Weight                       |        |       | 6.0  |      | grams    | Without ribbon cable                            |

<sup>(1)</sup>Span and zero offset are ratiometric to power supply voltage

**Environmental Specifications (Analog)**

(Unless otherwise specified, all parameters are measured at 25°C @ 5.0V applied)

| Parameter                     | Symbol         | Min   | Typ | Max | Units | Notes/Conditions            |
|-------------------------------|----------------|---|-----|-----|-------|-----------------------------|
| Compensated temperature range | T <sub>o</sub> | 0   |     | 50  | °C    | 0.5-4.5V Output only        |
| Storage temperature           | T <sub>s</sub> | -40   |     | 85  | °C    |                             |
| Ambient humidity              |                | 0   |     | 85  | %RH   | Non-condensing              |
| EMI/RFI/ESD protection        |                | IEC61000-4-2 (8kV <sub>air</sub> /4kV <sub>contact</sub> )<br>IEC61000-4-3 (3V/m)<br>IEC55032 Class A |     |     |       | mV Output only              |
| Ingress protection            | IP             |   | 43  |     |       |                             |
| Media compatibility           |                | External exposed surfaces: 17-4 and 304 stainless steel   |     |     |       | Excluding cable & connector |

**Schematic Diagram – mV output (Analog)**



**Block Diagram – 0.5 to 4.5V output (Analog)**

