



LEVEL

# Plastic Submersible Level Transmitter

## Tek-Sub 4800A



### 1 FEATURES

- Measuring pressure ranges from 2.8 psig to 15 psig (2 mH<sub>2</sub>O to 10.5 mH<sub>2</sub>O)
- Temperature Compensated
- PTFE housing
- Ceramic pressure sensor design
- Variety of pressure and electrical options
- Standard Output 4-20 mA, RS-485, 0.5-4.5 VDC
- Accuracy:  $\pm 0.5\%$  FS

### 3 APPLICATIONS

- Chemicals
- Brine
- Acids
- Sodium Hypochlorite

### 2 SPECIFICATION

|                                   |                                                                                                    |
|-----------------------------------|----------------------------------------------------------------------------------------------------|
| Pressure range                    | 2.8 psig to 15 psig (2 mH <sub>2</sub> O to 10.5 mH <sub>2</sub> O),<br>Optional ranges available  |
| Pressure type                     | Gauge                                                                                              |
| Over pressure                     | 150% FS                                                                                            |
| Accuracy                          | $\pm 0.5\%$ FS (max.)                                                                              |
| Temperature coefficient-zero      | $\pm 0.011\%$ FS (typ.), $\pm 0.016\%$ FS (max.)                                                   |
| Temperature coefficient-span      | $\pm 0.011\%$ FS (typ.), $\pm 0.016\%$ FS (max.)                                                   |
| Long term stability               | $\pm 0.2\%$ FS/year (typ.), $\pm 0.3\%$ FS/year (max.)                                             |
| Output signal                     | 4 to 20 mA, RS-485, 0.5 to 4.5 VDC                                                                 |
| Power supply (Vs)                 | 12 to 36 VDC                                                                                       |
| Load resistance (R <sub>L</sub> ) | For current output: $R_L \leq (V_s - 15)/0.02 \Omega$<br>For voltage output: $R_L \geq 10 k\Omega$ |
| Maximum current consumption       | 4 to 20 mA: 22.8 mA<br>0.5 to 4.5 VDC: 2 mA<br>RS-485: 6 mA                                        |
| Response time                     | $\leq 10$ ms                                                                                       |
| Vibration                         | 10g-force (20-2000 Hz)                                                                             |
| Shock                             | 100g-force (10 ms)                                                                                 |
| Insulation resistance             | 100 M $\Omega$ /50 VDC                                                                             |
| Compensated temperature range     | PTFE: 32 °F to 140 °F (0 °C to 60 °C)                                                              |
| Operating temperature range       | PTFE: -20 °F to 160 °F (-29 °C to 71 °C)                                                           |
| Storage temperature range         | -40 °F to 257 °F (-40 °C to 125 °C)                                                                |
| Maximum specific gravity          | 2.2                                                                                                |
| Housing                           | PTFE                                                                                               |
| Cable                             | PTFE or Polyurethane                                                                               |
| Diaphragm                         | Ceramic (Al <sub>2</sub> O <sub>3</sub> , 96%)                                                     |
| O-ring                            | FKM (Flourine rubber)                                                                              |
| Net weight                        | 0.91 lb (412 g)                                                                                    |