



LEVEL



Technology Solutions

# Borehole Submersible Level Transmitter

## Tek-Sub 4800C



### 1 FEATURES

- Rugged, compact design for bore holes
- Stainless steel diaphragm and housing for excellent environmental protection
- Factory calibrated, easy to install and use
- Temperature compensated
- Surge and lightning protection
- Standard Output 4-20 mA, RS-485, 0.5-4.5 VDC
- Accuracy:  $\pm 0.25\%$  FS

### 3 APPLICATIONS

- Water level measurement in wells, borewells, ponds, reservoirs, weirs, & dams
- Ground water monitoring
- Drinking water systems
- Water diversion plants

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### 2 SPECIFICATION

Pressure range	10 psig to 50 psig (7 mH <sub>2</sub> O to 35 mH <sub>2</sub> O), Optional ranges available
Pressure type	Gauge (Vented)
Over pressure	150% FS
Accuracy	0.25% FS
Temperature coefficient-zero	$\pm 0.75\%$ FS (typ.), $\pm 1.5\%$ FS (max.) overcompensated temperature range
Temperature coefficient-span	$\pm 0.75\%$ FS (typ.), $\pm 1.5\%$ FS (max.) overcompensated temperature range
Long term stability	$\pm 0.2\%$ FS/year (typ.), $\pm 0.3\%$ FS/year (max.)
Output signal	4-20 mA, RS-485, 0.5-4.5 VDC
Power supply (Vs)	12 to 36 VDC
Load resistance (R <sub>L</sub> )	For current output: $R_L < (V_s - 12)/0.02A$
	For voltage output: $R_L > 10\text{ k}\Omega$
Vibration	10g-force (20-2000 Hz)
Shock	100g-force (10 ms)
Cycles	10X10 <sup>6</sup> cycles
Insulation resistance	100 M $\Omega$ /50 VDC
Compensated temperature range	32 °F to 140 °F (0 °C to 60 °C)
Operating temperature range	-40 °F to 185 °F (-40 °C to 85 °C)
Storage temperature range	-40 °F to 257 °F (-40 °C to 125 °C)
Housing	304 SS
Cable	PTFE or Polyurethane
Diaphragm	316 SS
Seal ring	Viton
Oil filling	Silicone oil
Net weight	0.49 lb (225 g)