



## Very Low Range Submersible Transmitter

## Nanolevel™



### Full scale ranges as low as 4 in W.C.

- ▶ High resolution in low flow applications

### 16-bit internal digital error correction

- ▶ Cost-effective low Total Error Band

### Gold-plated Ceramic Diaphragm

- ▶ Durable non-fouling design

### User-rangeable analog output

- ▶ Ensures compatibility as requirements change

### Dual (analog & RS485) outputs standard

- ▶ Simplifies interface to control as well as data collection / telemetry systems

The Nanolevel from Keller is specifically designed for use in level measurement applications where full scale ranges are less than 10 ft W.C. The Nanolevel's ceramic capacitive sensor technology is proven to provide excellent stability in full scale pressure ranges as low as 4 inches of water.

Perfectly suited for pump control applications and monitoring levels in tanks, weirs, and cooling towers, the Nanolevel is compatible with any standard 2-wire, 4-20 mA current loop that supplies a minimum of 8 but no more than 28 VDC to the transmitter. The Nanolevel is typically suspended into the liquid by a standard Hytrel®-jacketed cable that is both self-supporting and vented. Optional ½"NPT male conduit fitting adapts the Nanolevel to those applications where hard-mounting by rigid conduit is preferred.

The Nanolevel, built with custom level range and cable length, is typically shipped in 3 days or less, as are all of our US-made pressure and level transmitters. They include our Levelgage/Acculevel/Microlevel/LevelRat submersible level transmitters and Valueline/Preciseline pump pressure and elevated storage tank level transmitters. Whatever the pressure or level measurement requirement, a solution can be found within the Keller product lineup. Call toll-free 877-253-5537 to discuss your requirements with one of our experienced sales engineers.



Levelgage /  
Acculevel

Please visit  
[www.kelleramerica.com](http://www.kelleramerica.com)  
for our full product line!



Valueline /  
Preciseline

KELLER AMERICA, INC.

813 Diligence Drive, Suite 120 • Newport News, VA 23606 • Toll Free (877) 2-KELLER • Phone (757) 596-6680 • Fax (757) 596-6659  
USA: [www.kelleramerica.com](http://www.kelleramerica.com) • Switzerland: [www.keller-druck.com](http://www.keller-druck.com)

# Nanolevel



## Specifications

<b>Level range (user specified)<sub>1,2</sub></b>	Infinite between 0 – 4 thru 0 – 120 in. WC	
<b>Accuracy, TEB<sub>3</sub></b>	Standard: ±0.25%	Optional: ±0.1%
<b>Compensated/operating Temp. Range</b>	10 - 50°C / 0 – 80°C	
<b>Supply<sub>4,5</sub></b>	8 - 28 VDC	
<b>Output</b>	4 – 20 mA + RS485	
<b>Load Resistance (Ω)</b>	mA: < (Supply - 8V) / 0.02A	
<b>Wetted Materials</b>	Std. 316L S.S., Ceramic (Gold-plated), Nitrile	
<b>Cable<sub>6</sub></b>	Std. Hytel-jacketed, vented & shielded (Optional Tefzel® or Polyethylene jackets)	
<b>Environmental Protection</b>	IP68	

### Notes

1. The Nanolevel can be provided with custom calibration at no extra cost for fluids other than water, provided the specific gravity is given at the time the order is placed.

2. Level range may be specified in units of lb/in<sup>2</sup>(psi), inches WC or feet WC. Keller America uses the International Standard conversion of 2.3067 feet WC/psi.

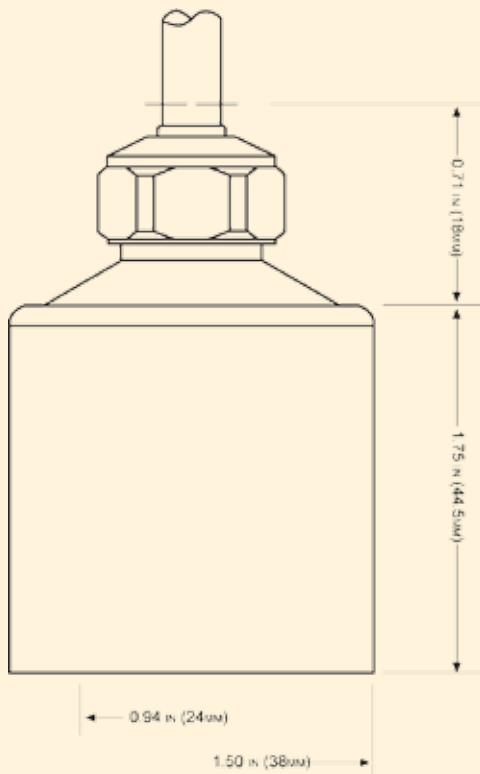
3. TEB: Total Error Band; Includes the combined effects of non-linearity, hysteresis and non-repeatability as well as thermal dependencies, over the compensated temperature range.

4. Nominal values may be higher depending upon cable length. Cable resistance = ~70Ω / 1000ft.

## Wiring Configuration

Configuration	White	Red	Black	Blue	Yellow
mA+RS485	OUT/GND	N / A	+Vcc	RS485A	RS485B

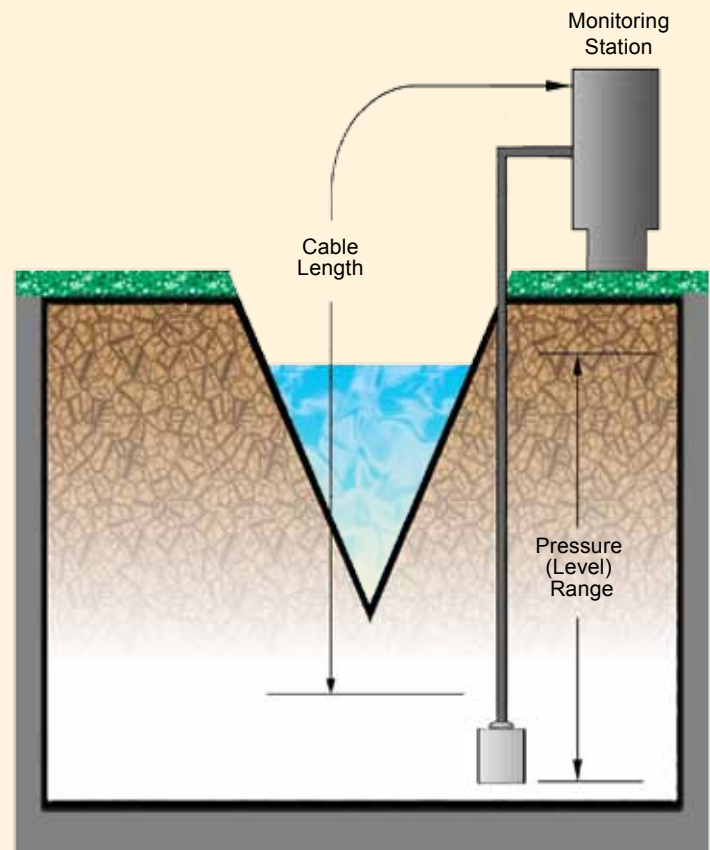
## Dimensions



### How to Order:

Please specify "Nanolevel, pressure (or level) range, accuracy, and cable length".

Dimensions in inches (millimeters)



Note: Dimensions & specifications are subject to change without notice. For the most accurate and up to date information on all products please visit our website.

### Options & Accessories

- ▶ Drying Tube Assembly
- ▶ Bellows Assembly

- ▶ 1/2" NPT Conduit Fitting
- ▶ Termination Enclosure

- ▶ GSM-1 Remote Data Transmitter Unit