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.

For more information on the Nanolevel, or any other Keller product, please contact Keller America, or view the entire Keller catalog at [http://www.kelleramerica.com/datasheets.html](http://www.kelleramerica.com/datasheets.html).

**FEATURES**

- Gold-plated ceramic sensing diaphragm.
- 16-bit internal digital error correction for cost effective low Total Error Band (TEB)
- 316L SS housing construction.
- 2-year warranty covers defects in materials and workmanship.
- User-rangeable analog output ensures compatibility as requirements change. Converter cable required, sold separately.
- RS485 modified-MODBUS compatible interface allows up to 128 transmitters on a single bus.
- Standard dual (analog & RS485) outputs simplify interface to controls, data collection, and telemetry systems.
- Built in the U.S.A. ARRA Section 1605 Compliant.
- Standard 3-day lead time.

<table>
<thead>
<tr>
<th>Output</th>
<th>White</th>
<th>Black</th>
<th>Blue</th>
<th>Yellow</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-wire (mA)</td>
<td>OUT / GND</td>
<td>+Vcc</td>
<td>RS485A</td>
<td>RS485B</td>
</tr>
<tr>
<td>Braided shield wire connected to transmitter housing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Pressure Ranges

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

2. Intermediate ranges are realized by deranging the analog output from the next highest basic range: 30, 100, and 300 mbar. Level range may be specified in units of lb/in² (psi), inches WC or feet WC. Keller America uses the International Standard conversion of 2.3067 feet WC/psi.

Accuracy

Static

Standard ±0.1% FS, Optional ±0.05% FS

Total Error Band

Standard ±0.25% BR, Optional ±0.1% BR

Environmental Protection Rating

IP68

Operating Temp.

0...60°C

Compensated Temp.

10...50°C

Wetted Materials

316 L Stainless Steel

Gold-plated Ceramic

Nitrile

Fluorocarbon

Cable Options

Polyethylene for general purpose

Hytrek for hydrocarbon

Tefzel for chemical interaction

Certifications

CE EN50081-1, EN50082-2

Electrical

Supply (4-20mA) 8...28 VDC

Load Resistance (mA) <(Supply-8V)/0.022A

Accuracy

Static

Standard ±0.1% FS, Optional ±0.05% FS

Total Error Band

Standard ±0.25% BR, Optional ±0.1% BR

The calculation for maximum TEB on intermediate ranges (IR) is: TEB_{IR} = (BR/IR) \times TEB_{BR}

Output

Current 4...20mA + RS485

Resolution

0.002%

Resolution applies to digital output only. Analog resolution is continuous and limited by the process meter and not the instrument.

Optional Accessories

Drying Tube Assembly

Bellows Assembly

Cable Hanger

Termination Enclosure

Interface Converter

Process Meter

Signal Line Surge Protector