TRANSDUCER SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Range Liquids (mm)</th>
<th>Nominal Range Solids (mm)</th>
<th>Minimum Range</th>
<th>Temperature Range</th>
<th>Weight</th>
<th>Frequency</th>
<th>Mean Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>BT26PT</td>
<td>45 (1.8&quot;)</td>
<td>15 (0.6&quot;)</td>
<td>40&quot; (1.0&quot;)</td>
<td>40° to 71°C</td>
<td>1.2 lbs (0.5 kg)</td>
<td>430 Hz</td>
<td>12° included</td>
</tr>
<tr>
<td>BT26ST</td>
<td>25 (1.0&quot;)</td>
<td>15 (0.6&quot;)</td>
<td>40&quot; (1.0&quot;)</td>
<td>40° to 71°C</td>
<td>1.2 lbs (0.5 kg)</td>
<td>430 Hz</td>
<td>12° included</td>
</tr>
<tr>
<td>BT61FT</td>
<td>50 (1.5&quot;)</td>
<td>30 (1.2&quot;)</td>
<td>24&quot; (0.6&quot;)</td>
<td>40° to 71°C</td>
<td>3.1 lbs (1.4 kg)</td>
<td>220 Hz</td>
<td>12° included</td>
</tr>
<tr>
<td>BT55</td>
<td>125 (5&quot;)</td>
<td>100 (4&quot;)</td>
<td>24&quot; (0.6&quot;)</td>
<td>40° to 71°C</td>
<td>13.0 lbs (5.9 kg)</td>
<td>24 kHz</td>
<td>5° included</td>
</tr>
<tr>
<td>BT101FT</td>
<td>125 (5&quot;)</td>
<td>100 (4&quot;)</td>
<td>36&quot; (0.9&quot;)</td>
<td>40° to 71°C</td>
<td>5.75 lbs (2.6 kg)</td>
<td>140 Hz</td>
<td>12° included</td>
</tr>
</tbody>
</table>

TRANSDUCER MOUNTING DIMENSIONS

The SonoTracker™ Ultrasonic Level System. The system can monitor up to 16 vessels with transducers of various frequencies, and vessels of different heights and shapes and accurately measure the level of many different materials. It allows you to read levels from 1 foot to beyond 100 feet in solids, and additionally the same unit does open channel flow and differential level measurements.

Features and Benefits

Quick Config
Menu driven quick set up in less than 5 minutes.

Modular Design
Configurable for number of sensors, relays, point level inputs, current loops, and PLC interfaces.

Multiple Functions In One Unit
Solids and liquid level, open channel flow, and differential level measurement. Adjusts systems parameters and pre-calibrates unit without special software.

Modular Design
Configurable for number of sensors, relays, point level inputs, current loops, and PLC interfaces.

Multiple Functions In One Unit
Mix level, flow and PID functions, different distance ranges, and solid as well as liquid applications.

Continuous Non-Contact Level Measurement
No contamination of material, no lost parts or cables, no material build-up on sensing face.

Sentry DSP™
Provides stable and accurate reading under process conditions.

NEMA-4X Enclosure
FRP or optional stainless steel offers the right protection for your environment.

Built-in Optically Isolated Serial Port
Versatile interfacing for data collection, servicing and building large multi-vessel communications systems.

How to Order

SonoTracker Level Monitor with Serial Output Isolator and Backlight Display

*If heater is needed 110 or 230 VAC must be specified.

Sonolator®
150 Venture Boulevard Spartanburg, SC 29306
Tel: (800) 778-9242 Fax: (843) 574-8063
Email: sales@bindicator.com
www.bindicator.com
**Electrical Specifications**

- **Transducer compatibility:** Any frequency from 10 KHz to 45 KHz
- **Display:** Large, back lit alphanumeric liquid crystal, two lines of 16 characters, user programmable ID, selectable bar graph display or engineering units format
- **Programming and Parameter Entry:** Integral 24-key sealed membrane tactile keyboard
- **Set-up:** Micro-driven prompts
- **Memory:** Non-volatile RAM, common isolation parameter storage
- **Bus-in Serial Communication:** RS-422, RS-485, (optical isolation standard), 1100, 2400, 4800, 9600 or 19.2 K baud, designed for multidrop single cable connection
- **Option cards** *(A maximum of three plug in option cards can be added)*
  - Scanner options: For multiple channel expansion, available with 2, 4, or 8 relays; first scanner card must be full 8 to use a second scanner card, maximum of two scanner cards per SonorTracker™
  - PLC Interface option: Allen Bradley RIO - 32 channel block transfer, 6 channel discrete transfers, Profibus-DP Slave
  - Relay Output option: Form "C" SPDT, programmable, 10 A 110 VAC, 8 A 230 VAC, non-inductive, 10 A 30 VDC, available as plug-in modules of 2, 4, 5 and 8 relays each
  - Point level Input: 5V @ 5mA, voltage provided for contact inputs. This offers maximum protection for the process with fail-safe on disconnect. These point level input modules are compatible with the majority of the devices available on the market today, available as plug in module of 16 inputs
  - 4-20 mA Output option: Isolated 600 ohms maximum or externally powered to 1000 ohms, 12 bit resolution, available as plug-in modules of 2, 4 and 8 outputs with common isolation, must be installed in third option slot
  - Combi-Card option: One combi-card per unit, combinations are 2 relays, 1 current, or 4 relays, 2 currents

**Environmental:**

- **Voltage:** 110/230 VAC (+/-10%), 50/60 Hz or 24 VDC
- **Power requirement:** 20 VA

- **Operating Temperature:** -5° to 122° F (20° to 50° C)
- **Storage Temperature:** -22° to 140° F (30° to 60° C) Humidity: 1% to 95%
- **Enclosures:** NEMA 4K fiberglass reinforced polyester (FRP) with 24-key, sealed alphanumeric liquid crystal or NEMA 4K stainless steel SonorTracker™ has NEMA 4K compression molded fiberglass, reinforced polyester and a silicon door gasket.

**How to Order**

<table>
<thead>
<tr>
<th>Description</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>BT26 CPVC Sensor</td>
<td>SON200059</td>
</tr>
<tr>
<td>BT26 CPVC Sensor with TC</td>
<td>SON200064</td>
</tr>
<tr>
<td>BT26 Stainless Steel Sensor</td>
<td>SON200058</td>
</tr>
<tr>
<td>BT26 Stainless Steel Sensor with TC</td>
<td>SON200069</td>
</tr>
<tr>
<td>BT55 CPVC Sensor</td>
<td>SON200085</td>
</tr>
<tr>
<td>BT61 CPVC Sensor with TC</td>
<td>SON200074</td>
</tr>
<tr>
<td>BT61 CPVC Sensor</td>
<td>SON200077</td>
</tr>
<tr>
<td>BT101 CPVC Sensor with TC</td>
<td>SON200084</td>
</tr>
<tr>
<td>BT101 CPVC Sensor</td>
<td>SON200057</td>
</tr>
</tbody>
</table>

**Features and Benefits**

**Versatile**

The transducers are designed for your specific application and environment. Available in frequencies of 14kHz, 22kHz, 24 kHz and 43kHz to fit a variety of materials and distances.

**Accurate**

Our transducers have an accuracy of 1% of rated span in approved bulk solids applications and 0.25% of rated span in approved liquid applications.

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<tr>
<td>Junction Box, NEMA 4x with 5 terminal connections</td>
<td>SON210027</td>
</tr>
<tr>
<td>Isolation Mount</td>
<td>SON230032</td>
</tr>
<tr>
<td>Conduit swivel explosionproof</td>
<td>SON200052</td>
</tr>
<tr>
<td>External temperature probe</td>
<td>SON200024</td>
</tr>
</tbody>
</table>

Non-pressurized flanges with standard ANSI 150 lb bolt hole configurations are available in 3", 4", 6", and 12".

Use part number 33-2074-01 for sensor cable and LUC036177 for temperature compensation cable.