The 1630 is a fully piezoresistive silicon pressure sensor for use in intrauterine pressure monitoring.

Overpressure: -400 to +1200 mmHg
Pressure: -50 - 300 mmHg
Sensor Type: Disposable Medical Pressure Sensors
Type: Gage
Output/Span: Sensitivity = 5 μV/V/mmHg

The sensor is designed to be used with automated assembly equipment and can be dropped directly into a customer’s disposable intrauterine housing.

The sensor is designed to meet the requirements as described in the Association for the Advancement of Medical Instrumentation (AAMI) specification for Blood Pressure Transducers. The pressure sensor consists of a pressure sensing element mounted on a ceramic substrate. Thick film resistors on the ceramic substrate are laser trimmed for compensation and calibration. A plastic cap is attached to the ceramic substrate to provide an easy method of attachment to the customer’s assembly and protection for the sensing element. A dielectric gel is placed over the sensor to provide fluid isolation. The 1630 pressure sensors are batch manufactured in a 3x8 element array on a ceramic substrate (24 units per substrate). The products are shipped in anti-static shipping containers. They can also be shipped on a tape and reel. Performance characteristics and packaging can be easily tailored on a special order basis to meet the requirements of specific customers.

**BENEFITS**

- Disposable Intra Uterine Pressure Sensor
- Disposable Blood Pressure Sensor
- AAMI Specifications
- Low Cost Disposable
- Dielectric Gel Barrier
- Fully Tested & Calibrated
- Low Cost, Medical Applications
- Small Size and Reliable Performance
- Gel Isolation for Liquids
- Operates from 10°C to 40°C
- Compatible for Automated Assembly
- 1% Accuracy for Replacements
- 5.0 μV/V/mmHg Sensitivity
- Customization for OEM Applications
# Features

## Product Type Features

<table>
<thead>
<tr>
<th>Sensor Type</th>
<th>Disposable Medical Pressure Sensors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Gage</td>
</tr>
</tbody>
</table>

## Electrical Characteristics

| Supply Voltage (V) | 6                                      |

## Dimensions

<table>
<thead>
<tr>
<th>Dimensions (mm)</th>
<th>3.05 x 4.6 x 3.7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (in)</td>
<td>.12 x .18 x .145</td>
</tr>
</tbody>
</table>

## Usage Conditions

<table>
<thead>
<tr>
<th>Operating Temperature Range (°C)</th>
<th>10 - 40</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature Range (°F)</td>
<td>50 - 104</td>
</tr>
</tbody>
</table>

## Operation/Application

<table>
<thead>
<tr>
<th>Overpressure</th>
<th>-400 to +1200mmHg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure (mmHg)</td>
<td>-50 - 300</td>
</tr>
<tr>
<td>Output/Span</td>
<td>Sensitivity = 5 uV/V/mmHg</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±2.0% FSO</td>
</tr>
</tbody>
</table>

## Packaging Features

<table>
<thead>
<tr>
<th>Package</th>
<th>Hybrid Assembly</th>
</tr>
</thead>
</table>

## Other

<table>
<thead>
<tr>
<th>Options</th>
<th>24 UP Snapstrate, Tape and Reel</th>
</tr>
</thead>
</table>

## Related Materials

### Data Sheet

- **Data sheet**
  - English

### Brochure

- **Sensor Solutions for Medical Applications**
  - English

### Sell Sheet

- **Medical Device Sensor Solutions**
  - English

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**Also in the Series** | **MEAS 1630**
NARROW MEDICAL PRESSURE SENSOR

TE Model #: 1630-PRESSURE
TE Internal #: CAT-BLPS0031

Board Level Pressure Sensors(1)