SM SERIES
High Stability, Waterproof Pilots
**SMart design. Solid performance.**

When the industry demanded a pilot with moisture-proof flame detection and integrated high-performance electronics, Zeeco delivered. As the world leader in combustion solutions, Zeeco understands reliability, durability, and safety are essential for proper pilot operation. Zeeco’s proprietary SM series pilot features a waterproof High Energy Igniter (HEI) for superior ignition performance. Our hermetically-sealed flame rod delivers reliable flame detection, even in the wettest environments. The flame rod is located within the pilot tip to enable the most reliable flame signal and can be operated over a wide range of fuels from 90% hydrogen to 100% propane. The junction box seals and protects all electrical connections from moisture and eliminates the need for environmentally-related electrical maintenance repairs.

**Peace of mind. Every time.**

Zeeco’s HEI ignition probes are rated at two joules for first time, every time firing. This technology combines a robust, high energy discharge spark with long lasting performance. Zeeco’s HEI Ignition Probes are superior to other traditional probes in that they will spark even when submerged underwater. We can custom design enclosures that mount to the bottom of the pilot for almost every area classification. In support of Zeeco’s innovative design philosophy, our SM series pilot features a removable spud holder for easy, routine maintenance. We also offer a forced draft version.

### Feature Comparison

<table>
<thead>
<tr>
<th>Feature</th>
<th>Traditional</th>
<th>SM</th>
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</thead>
<tbody>
<tr>
<td>Hermetically-sealed flame rod</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
<td>Easily removeable spud holder</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
<td>Integrated flame relay detection system</td>
<td>NO</td>
<td>OPTIONAL</td>
</tr>
<tr>
<td>Integrated HEI ignition module</td>
<td>NO</td>
<td>OPTIONAL</td>
</tr>
<tr>
<td>Integrated explosion-proof enclosure</td>
<td>NO</td>
<td>OPTIONAL</td>
</tr>
<tr>
<td>Forced draft pilot air supply</td>
<td>NO</td>
<td>OPTIONAL</td>
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Zeeco has the advanced technology and decades of experience to back up our field proven products. Our Combustion Research and Test Facility was the first in the world to become ISO 9001-2000 certified. With 15 full-scale test furnaces, Zeeco is capable of testing a wide variety of combustion systems under simulated field conditions.

The Zeeco difference.

Our only business is the combustion business. By concentrating on what we do best, Zeeco has grown into a worldwide leader in combustion solutions. We are a privately held company whose ownership stays highly involved in daily operations, with upper management comprised of the world’s leading combustion experts.

When you call Zeeco, we answer. When you make a request, you get a quick response. Our sales, engineering, and purchasing groups work hand-in-hand to deliver highly competitive quotes and heroic turnaround times. We stand ready and willing to travel anywhere in the world to discuss upcoming projects firsthand and to ensure every project runs seamlessly.

Choose the market leader. Choose Zeeco.

Design Features

- Hermetically-sealed flame rod
- High Energy Ignition (HEI) rated 2 Joules
- Integrated explosion-proof enclosure (Optional)
- Easily removable spud holder
- Integrated flame relay and ignition module (Optional)
- Investment cast components
- Easy to retrofit

Operating Information

- Heat release: 90,000 Btu/hr (26 kW)
- 5-15 psig pilot operating range (0.4-1.05 kg/cm² g)
- Input power requirements 110v/220v