RK30880E
Water-in-Fuel Detection Kit

Overview:
This kit includes new and enhanced detection electronics built into the probe body and works with 12 or 24 volt DC systems.

Once the level of collected water rises to make contact between the two probe tips, a yellow warning light will illuminate, indicating time to drain water and contaminants from the collection bowl.

Follow draining instructions provided with each fuel filter/water separator to drain the collection bowl. After water has been drained, the warning light will reset and no longer be illuminated.

Contact Information:
Parker Hannifin Corporation
Racor Division
P.O. Box 3208
3400 Finch Road
Modesto, CA 95353

phone 800 344 3286
209 521 7860
fax 209 529 3278
racor@parker.com
www.parker.com/racor
www.parker.com/racorproducts

Product Features:

- Housing Permanently Marked for Identification
- Includes a Warning Light
- Circuit Board Power Controller (10 volt continuous)
- Reverse Polarity Protection
- Built-in Amplifier
- False Detection Prevention (water slosh delay)
- Electromagnetic Compatibility (EMC)
### RK30880E

**Specifications**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Port Thread Size</strong></td>
<td>1/2&quot;-20 UNF</td>
</tr>
<tr>
<td><strong>Housing</strong></td>
<td>Nylon</td>
</tr>
<tr>
<td><strong>Volts DC</strong></td>
<td>12 or 24</td>
</tr>
<tr>
<td><strong>ohm</strong></td>
<td>47K</td>
</tr>
<tr>
<td><strong>Ambient Fuel Temperature</strong></td>
<td>-40° to +250°F (-40° to +121°C)</td>
</tr>
<tr>
<td><strong>Maximum Fuel Temp</strong></td>
<td>190°F (88°C)</td>
</tr>
</tbody>
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The RK30880E is for diesel applications only. Do not use in gasoline applications.

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**Installation Guidelines**

1. Lubricate o-ring on water probe with clean motor oil, then install into collection bowl. Tighten probe body snugly by hand only.

2. Connect **BLACK** wire on connector assembly to ground, **RED** wire to +12/24 vdc, and **YELLOW** wire to either side of supplied lamp (use a supplied spade connector).

3. Use loose black wire (supplied with lamp) and spade connector to connect other side of lamp to 1 amp fuse +12/24 vdc.

4. Use cable ties to secure any loose wires. Reconnect positive battery terminal.
Installation Information

Typical clear collection bowl. (This kit will work with other bowl types/styles with 1/2"-20 UNF threads).

Water Probe Port 1/2"-20 UNF threads.

Probe Assembly

Connector Assembly

Black wire to ground

Yellow wire to one side of warning light.

Red wire to +12/24 VDC

Warning Light (install in a panel).

Black wire from light kit to +12/24 VDC
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