Condutive multiple rod electrode

**Area of application**

The multiple rod electrode EL 4 is a universal level switch for conductive liquids. The instrument is ideal as overfill and dry run protection or as pump control in conjunction with VEGATOR 256C and VEGATOR 632 signal conditioning instruments.

**Advantages**

- Reliable pump control through multiple rod probe
- High flexibility in use through shortenable rod probe
- Reduced stockkeeping through exchangeable rod probes

**Function**

The instruments are used for level detection in conductive liquids. A VEGATOR 256 C or 632 is required for operation of the conductive probe. When the probe is immersed, a slight alternating current flows and is detected, evaluated and converted into a switching command by the signal conditioning instrument. The switching point is determined via the mounting position or the length of the respective probe.

**Technical data**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Probe length</td>
<td>up to 4 m (13.12 ft)</td>
</tr>
<tr>
<td>Conductance of the medium</td>
<td>min. 7.5 µS/cm</td>
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<tr>
<td>Process fitting</td>
<td>Thread G1½</td>
</tr>
<tr>
<td>Process pressure</td>
<td>-1 … +6 bar/-100 … +600 kPa</td>
</tr>
<tr>
<td></td>
<td>(-14.5 … +87 psig)</td>
</tr>
<tr>
<td>Process temperature</td>
<td>-20 … +100 °C (-4 … +212 °F)</td>
</tr>
<tr>
<td>Ambient, storage and transport temperature</td>
<td>-40 … +80 °C (-40 … +176 °F)</td>
</tr>
<tr>
<td>Voltage supply</td>
<td>Via the connected signal conditioning instrument</td>
</tr>
</tbody>
</table>

**Materials**

The wetted parts of the instrument are made of PP. The rods of the probe are made of stainless steel.

You can find a complete overview of the available materials and seals in the "configurator" on our homepage under [www.vega.com/configurator](http://www.vega.com/configurator).

**Housing versions**

The housing is made of plastic (PP).

It is available with protection rating up to IP 66/IP 67.

**Electronics versions**

The probe is operated with external processing. The connected signal conditioning instrument powers the probe and provides a switching signal.

**Operation**

You can find the setup procedure for EL 4 in the operating instructions manual of the corresponding signal conditioning instrument.

**Electrical connection**

1. Rubber cap
2. Grounding eye

You can find details on the electrical connection in the instrument operating instructions on our homepage at [www.vega.com/downloads](http://www.vega.com/downloads).
Dimensions

Conductive probe EL 4
L1-3 Probe length

Information

You can find further information about the VEGA product line on our homepage www.vega.com.
In the download section under www.vega.com/downloads you'll find free operating instructions, product information, brochures, approval documents, instrument drawings and much, much more.

Instrument selection

With the "finder" you can select the most suitable measuring principle for your application: www.vega.com/finder.
You can find detailed information on the instrument versions in the "configurator" on our homepage under www.vega.com/configurator.

Contact

You can find the VEGA agency serving your area on our homepage www.vega.com.