VEGAKON 66
Relay (DPDT)

Conductive multiple rod level switch for liquids

Area of application
The VEGAKON 66 is a point level switch for conductive liquids. The instrument is best suited as full or empty alarm.

Advantages
- Reliable pump control through multiple rod electrodes
- High flexibility in use through shortenable rod electrodes
- Reduced stockkeeping through exchangeable rod electrodes

Function
The instruments operate according to the conductive measuring principle and are used in conductive liquids. When immersed, the probe detects the product resistance. A low alternating current is detected by the integrated electronics and converted into an appropriate switching signal. The switching point is determined via the mounting position or the length of the respective probes.

Technical data
- Conductance of the medium: min. 5 μS/cm with 30 mm electrode covering
- Probe length: up to 4 m (13.12 ft)
- Process fittings: Thread G1¼
- Process pressure: -1 ... +6 bar/100 ... +600 kPa (-14.5 ... +87 psig)
- Process temperature: -40 ... +100 °C (-40 ... +212 °F)
- Ambient, storage and transport temperature: -40 ... +80 °C (-40 ... +176 °F)
- Voltage supply: 20 ... 253 V AC, 50/60 Hz, 20 ... 72 V DC
- Power consumption: 1 ... 8 VA (AC), approximately 1.5 W (DC)
- Turn-on voltage: min. 10 mV, max. 253 V AC, 253 V DC
- Switching current: min. 10 μA / max. 5 A AC, 1 A DC
- Breaking capacity: min. 50 mW, max. 750 VA AC, 54 W DC

Materials
The wetted parts of the instrument are made of plastic PP. You can find a complete overview of the available materials and seals in the "configurator" on our homepage under www.vega.com/configurator.

Housing versions
The housings are available in plastic or Aluminium. The plastic housing has protection rating up to IP 66, the Aluminium housing protection rating IP 66/IP 67.

Electronics versions
The instruments are available in two different electronics versions. Apart from the electronics with relay output (DPDT), a version with transistor output (PNP) is also available.

Operation
You can adjust the mode and the integration time of the level switch on the electronics module and adapt the sensor to the conductive value of the medium. The control lamp indicates the switching condition of the instrument.
**Electrical connection**

Is used to switch external voltage sources to relays, contactors, magnetic valves, horns etc.

![Electrical connection diagram](image)

- Electronics with relay output
  1. Relay output
  2. Voltage supply

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**

![Dimensions diagram](image)

VEGAKON 66 with three probes

- L1 Length ground probe
- L2 Length max. probe
- L3 Length min. probe

**Information**

You can find further information about the VEGA product line on our homepage [www.vega.com](http://www.vega.com).

In the download section under [www.vega.com/downloads](http://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](http://www.vega.com/finder).

You can find detailed information on the instrument versions in the "configurator" on our homepage under [www.vega.com/configurator](http://www.vega.com/configurator).

**Contact**

You can find the VEGA agency serving your area on our homepage [www.vega.com](http://www.vega.com).