VEGAKON 66
Transistor (NPN/PNP)

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 electrode
- 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 G1½
- 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: 10 … 55 V DC
- Load current: < 400 mA
- Voltage loss: < 1 V
- Turn-on voltage: < 55 V DC
- Blocking current: < 10 µA

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.
4. DIL switch: Integration time
5. Mode switch (A/B)
6. Type label
7. Tensile proving ring

**Electrical connection**

The transistor switches the operating voltage of the electronics module to the binary input of a PLC or an electrical load. Through different connections of the consumer (load), PNP or NPN action can be attained.

![Electrical connection diagram]

Electronics with transistor output
1. NPN action
2. PNP action

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]

VEGAKON 66 with three probes
L1 Length ground probe
L2 Length max. probe
L3 Length min. probe

**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).

**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.