VEGACAP 65
Two-wire
Capacitive cable electrode for level detection

Area of application
The VEGACAP 65 is a point level sensor for use in all areas of industry. The partly insulated probe is ideal for the measurement of bulk solids and can also be used in non-conductive liquids such as e.g. oil. The proven construction ensures high functional safety.

Advantages
- Long lifetime and low maintenance requirement through robust mechanical construction
- High flexibility through shortenable probe
- Maximum use of the vessel, because measurement over the complete probe length

Function
Sensor and vessel form the two electrodes of a capacitor. A capacitance change caused by a level change is evaluated by the integrated electronics and converted into a switching signal. The capacitive measuring principle has no special requirements in respect to installation and mounting.

Technical data
- Sensor length: up to 32 m (105 ft)
- Process fitting: Thread from G1, 1 NPT, flanges from DN 50, 2”
- Process pressure: -1 … +64 bar/-100 … +6400 kPa (-14.5 … +928 psig)
- Process temperature: -50 … +200 °C (-58 … +392 °F)
- Ambient, storage and transport temperature: -40 … +80 °C (-40 … +176 °F)
- Operating voltage: 10 … 36 V DC (via the signal conditioning instrument)
- Output signal:– Suitable signal conditioning VEGATOR 521, 527, 620, 621, 622 instruments
– Output signal: > 4 … < 20 mA (not standardised)
– Fault message: < 2.3 mA
- Switching delay: 0.7 s (on/off)

Materials
The wetted parts of the instrument are made of stainless steel. The probe insulation is made of PTFE. You will 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, stainless steel or Aluminium. They are available with protection ratings up to IP 67.

Electronics versions
The instruments are available in different electronics versions. Apart from the versions with transistor output, contactless electronic switch and relay output, a two-wire version for connection to a signal conditioning instrument is available.

Approvals
The instruments are suitable for use in hazardous areas and are approved e.g. according to ATEX and IEC. The instruments have also different ship approvals such as e.g. GL, LRS or ABS. You can find detailed information on the existing approvals in the "configurator" on our homepage under www.vega.com/configurator.
Operation

The mode and switching point of the limit switch are adjusted on the connected signal conditioning instrument.

Electronics module - Two-wire output
1 DIL switch for measuring range selection (with compensation button)
2 Ground terminal
3 Connection terminals
4 Control lamp

Electrical connection

Wiring plan
1 Voltage supply

You can find details on the electrical connection in the instrument operating instructions on our homepage at www.vega.com/downloads.

Dimensions

1 Threaded version
2 Flange version
3 Threaded version with temperature adapter