

VEGAMET 381

Signal conditioning and indicating instrument with integrated relay switch outputs and Ex barrier

- Loop power/passive input for any 4 ... 20 mA sensor (ex option)
- 2 relay outputs, scalable current output and 1 fault relay
- Large LC display for digital and bar graph measured value indication
- Front panel, wall or DIN rail mounting
- Simple adjustment

Function

The VEGAMET 381 signal conditioning instrument powers an individual 4 ... 20 mA sensor (active mode) or takes an input from a device (passive mode) and processes its measured value. Through an adjustment on VEGAMET this measured value can be easily scaled by any factor and transferred to connected downstream systems from the current output. It has a large scaleable display with bar graph (e.g for volume or mass), also 2 operating relays and a fault relay for control tasks.

Area of application

VEGAMET 381 can be teamed up with all VEGA level and pressure devices and any 4-20mA transmitters, (active or passive). It can provide power (even for an Ex area), a calibrated output, a display, 2 relay switch points and fault relay.

Technical data

| | |
|------------------------------------|---|
| Series | instrument for front panel or wall mounting or on carrier rail 35 x 7.5 according to EN 50022 |
| Terminals | screw terminals, max. wire cross-section 1.5 mm ² |
| Protection | wall/carrier rail mounting: IP 20 front panel mounting: IP 40 |
| Operating voltage | 20 ... 250 V AC, 50/60 Hz, 20 ... 250 V DC |
| Power consumption | 7 VA (AC), 4 W (DC) |
| Ambient temperature | -20 ... +60 °C |
| Indicating and adjustment elements | 1 function switch, 16-steps, 2 selection keys 4-digit scaleable display and bar graph control lamps, switching status of relays control lamp, fail safe relay control lamp, operation |
| Approvals | Option: ATEX II (1) G D [Ex ia] IIC |
| Sensor circuit | |
| Sensor input | number of sensors 1 x 4 ... 20 mA |
| Type of input (switch over) | mode active: sensor is powered by VEGAMET 381 mode passive: sensor has its own power supply |
| Outputs | |
| Current output, range | Selectable 0/4 ... 20 mA |
| Current output, max. load | 500 Ohm |
| Relay output | 2 operating relays, 1 fail safe relay |
| Relay, breaking capacity | max. 500 VA, 50 W DC |
| Relay, turn-on voltage | min. 10 mV DC, max. 250 V AC/DC |
| Relay, switching current | min. 10 µA DC, max. 3 A AC, 1 A DC |

Accessories: VEGAMET 381 IP65 Housing