VEGAMET 381

Signal conditioning and display instrument for level sensors

Application area

The VEGAMET 381 signal conditioning instrument powers the connected 4 … 20 mA/HART sensor, processes and displays the measured values. The VEGAMET 381 is ideal for simple control tasks in all industries. Comprehensive adjustment functions allow individual adaptations to the respective application.

Your benefit

- Transmitter power supply via the 4 … 20 mA sensor input
- Versatile use through two relay outputs for control of pumps and stirrers, etc.
- Clearly readable LC display for digital and quasianalogue measured value indication

Function

The VEGAMET 381 signal conditioning instrument powers a 4 … 20 mA sensor and processes its measured value. Through an adjustment on VEGAMET this measured value can be scaled individually and outputted to connected instruments via the current output. Beside the large indication there are two operating relays that serve as limit alarms for control tasks.

Technical data

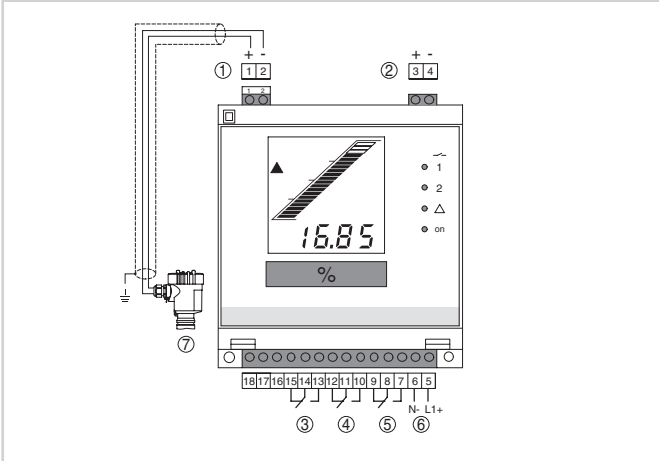| Series	Instrument for mounting into front panel, switching cabinet or housing
Connection terminals	
− Type of terminal	Screw terminal
− Max. wire cross-section	1.5 mm² (AWG 16)
Operating voltage	20 … 253 V AC, 50/60 Hz, 20 … 253 V DC
Max. power consumption	12 VA, 4 W
Sensor input	
Sensor input Number of sensors	1 x 4 … 20 mA
Type of input (switchable)	
− mode active	Sensor supply through VEGAMET 381
− mode passive	Sensor has an own power supply
Deviation	
− Accuracy	±20 µA (0.1 % of 20 mA)
Relay outputs	
Relay Quantity	2 x operating relay, 1 x fail safe relay
Switching voltage	min. 10 mV DC, max. 250 V AC/DC
Switching current	min. 10 µA DC, max. 3 A AC, 1 A DC
Breaking capacity	min. 50 mW, max. 500 VA, max. 54 W DC
Current output	
LoadCurrent output Quantity	1 x output
Range	0/4 … 20 mA
Max. load	500 Ω
LC display Measured value indication	
− LC display (45 x 45 mm)	digital and quasianalogue indication
− Max. indicating range	-9999 … 9999
LED displays	
− Status, operating voltage	1 x LED green
− Status, fault signal	1 x LED red
− Status operating relay 1/2	2 x LED yellow
Ambient temperature	-20 … +60 °C (-4 … +140 °F)
Protection rating	
− Wall, rail mounting	IP 20
− Front panel mounting	IP 40

Approvals

You can find detailed information on the existing approvals in the "*configurator*" on our homepage at www.vega.com/configurator.

Operation

VEGAMET 381 is adjusted on the front via a clear LC display and a 16-step function switch as well as two keys.
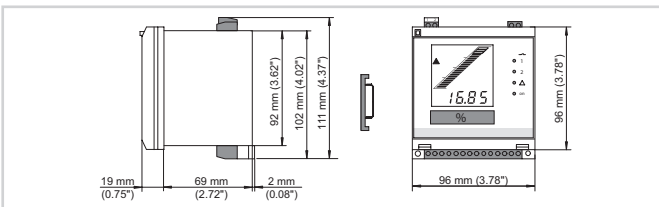
Electrical connection

Connection VEGAMET 381

1   *Meas. data input/sensor power supply with sockets for VEGACONNECT*
2   *Current output*
3   *Fail safe relay*
4   *Relay 2*
5   *Relay 1*
6   *Voltage supply*

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

Dimensions

Information

You can find further information on 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.

Contact

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