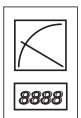


Operating Instruction

VEGADIS 174



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Safety information

The described module must only be inserted and operated as described in this operating instruction. Please note that other action can cause damage for which VEGA does not take responsibility.

1 Product description

1.1 Function and configuration

VEGADIS 174 is a digital indicating instrument for front panel mounting.

It can be connected to all signal conditioning instruments with DISBUS-output. The indication of VEGADIS is a digital 5-digit LC-display with background lighting.

Function

The VEGADIS 174 indicating instrument is used for indication of measuring results.

The measured data are transmitted via a DISBUS-line from one or several signal conditioning instruments to the respective VEGADIS 174.

Configuration

VEGADIS can be connected via a two-wire line to all signal conditioning instruments with DISBUS-output or to a processing system VEGALOG 571.

This two-wire line is used for digital transmission of measuring results (DISBUS), when a VEGALOG is connected also for power supply. Up to 15 signal conditioning instruments with up to 45 VEGADIS 174 can be connected to this two-wire line. VEGADIS 174 receives the measured data of all connected signal conditioning instruments. However it only displays the data of the signal conditioning instrument to the address of which it is adjusted.

CE-conformity

VEGADIS meets with the protective regulations of EMVG of 9.11.1992 and EG-low voltage regulation 72/23/EWG. The conformity was judged acc. to the following standards:



EN 61 010
EN 50 081-1
EN 50 082-2

1.2 Technical data and dimensions

General

Series	instrument for front panel mounting
Dimensions	W = 96 mm, H = 48 mm, D = 110 mm
Weight	appr. 200 g
Housing material	plastic PPh
Terminals	max. 1,5 mm ²

Ambient conditions

Permissible ambient temperature	-10°C ... +60°C
Storage and transport temperature	-20°C ... +80°C

Power supply

Voltage supply	20 ... 250 V AC, 20 ... 72 V DC
Power consumption	1 ... 9 VA, 1,5 W

Electrical protective measures

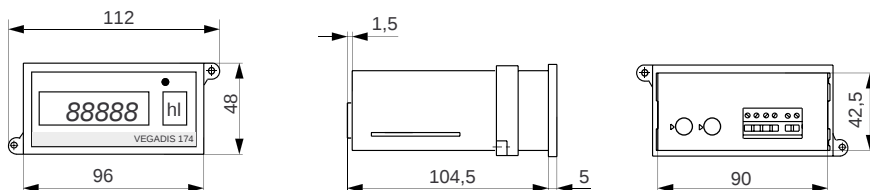
Protection class	II
Overvoltage category	II
Protection	
- front	IP 40
- housing	IP 20

Inputs

Transmission	digital
Connection line to the signal condit. instrument	2-wire (screened cable recommended)
Line length	max. 1000 m

Digital indication

LCD-display	5-digit with minus sign
Height of figures	12,7 mm
Decimal point	individually selectable



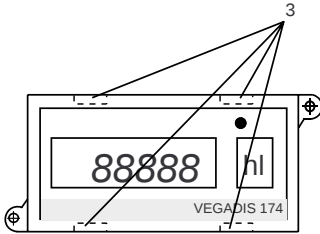
2 Mounting

2.1 Plug-in plate

In the front of VEGADIS 174 a plate with the respective unit symbol can be plugged in.

%	m	cm	ft	kg	t	gal	hl	m³
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- Loosen the front frame (1) of VEGADIS 174 with a small screwdriver on the four lockings (3).

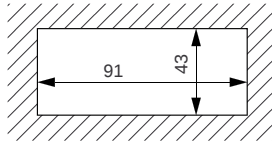


- Loosen the front plate (2) with a small screwdriver and remove from the instrument housing (5).
- Loosen the requested plug-in plate (8) from the enclosed strip and plug-in the plate laterally into the opening in the front pane (2).
- Insert the front pane (2) into the opening of the instrument housing (5). Observe that the key (ADDR. CHECK) (7) must protrude out of the front pane.
- Place the front frame (1) to the instrument housing (5) and press the front frame until all four lockings (3) snap in.

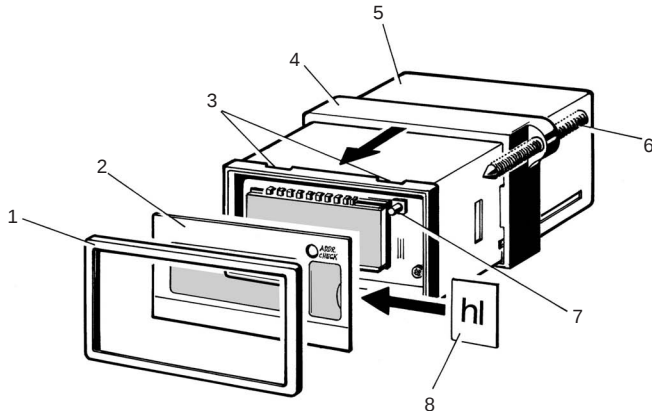
2.2 Mounting instruction

Mount VEGADIS 174 indicating instrument into an opening with the size 91 x 43 mm.

- Cut an opening with the dimensions 91 x 43 into your front panel.



- Remove the frame (4) to the back.
- Plug the VEGADIS 174 without frame from the front into the front panel cut-out.
- Insert VEGADIS 174 from the front into the front panel cut-out until the frame (1) is flush to the front panel.
- Insert the frame (4) from the back to the instrument housing until snap-in.
- Fasten the two screws (6) moderately.



3 Electrical connection

Danger

Switch off power supply before starting connection work.

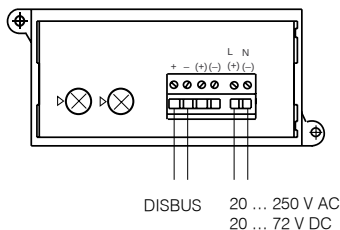
Carry out the electrical connection acc. to the following figures.

3.1 External power supply

The external power supply is in any case possible. In case VEGADIS is connected to signal conditioning instruments using a DISBUS without power supply, the VEGADIS must in any case be supplied externally.

With the following signal conditioning instruments VEGADIS 174 must be generally supplied externally (VEGAMET 513, 514, 514 V, 515, 515 V).

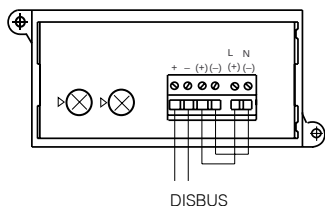
VEGADIS 174 can be supplied with 20 ... 250 V AC or 20 ... 72 V DC.



3.2 Power supply via DISBUS

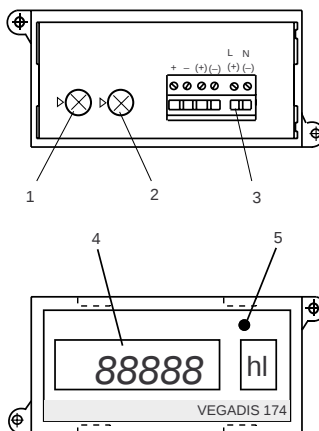
DISBUS with power supply is available with the following instruments: VEGALOG 571, VEGAMET 509 or VEGAMET 512.

Therefore connect terminals 3 and 5 as well as terminals 4 and 6 each with one line.



4 Set-up

4.1 Indicating and operating elements



- 1 Rotating switch VEGAMET ADDR. (black)
- 2 Rotating switch DIS No. (red)
- 3 Terminals
- 4 Digital indication
- 5 Key ADDR. CHECK

Key ADDR. CHECK (5)

With this key the data of VEGADIS 174 can be enquired. By pushing the key, the display indicates the adjusted address. If you keep the key pushed, the address and the DIS-number (channel) of VEGADIS are alternately displayed.

Rotating switch VEGAMET ADDR. (1)

With the 16-step rotating switch (VEGAMET ADDR.) you select the respective signal conditioning instrument. The address number must be determined on the respective signal conditioning instrument. VEGADIS 174 reads the data of the signal conditioning instrument, to which it is addressed.

Rotating switch DIS No. (2)

With the 10-step rotating switch (DIS No.) VEGADIS is set to the channel (DIS-number) of the respective signal conditioning instrument. The DIS-number can be selected on VEGAMET. If a processing system VEGALOG is connected, the DIS-number must not be connected. The rotating switch (2) is in any case without function.

4.2 Operating

VEGADIS 174 is a universal indicating instrument for all signal conditioning instruments, providing a DISBUS-signal.

Proceed as follows to adjust both values:

- Select with the black rotating switch VEGAMET ADDR. (1) the address number of the requested signal conditioning instrument.
- Select with the red rotating switch DIS No. (2) the DIS-number (channel) of the selected signal conditioning instrument. If a processing system VEGALOG is connected, the DIS-number must not be adjusted. The rotating switch (2) is in this case without function.
- Check the correct selection of the signal conditioning instrument by pushing the key ADDR. CHECK (5). The display indicates alternately the address number (e.g. Addr. 1) and the DIS-number (e.g. no. 1).

5 Diagnosis

The following fault signals are displayed on VEGADIS 174. Further fault signals are stated in the operating instruction of the signal conditioning instrument or of VEGALOG.

Fault signal/Error	Treatment/Measures
E9.10 No data traffic on DISBUS, DISBUS-communication interfered	Check the DISBUS-line (connections, line break)
E4.50 No signal conditioning instrument emitting on the adjusted address	Adjust the signal conditioning instrument and VEGADIS to the correct address
E4.51 No signal conditioning instrument emitting on the adjusted DIS-No.	Adjust the signal conditioning instrument and VEGADIS to the correct DIS-No.



VEGA Grieshaber KG
Am Hohenstein 113
D-77761 Schiltach
Phone (0 78 36) 50 - 0
Fax (0 78 36) 50 - 201
Fax (0 78 36) 50 - 203

For more VEGA product please visit: www.ainstru.com
Mail: Sales@ainstru.com

