

VEGASCAN 693

Signal conditioning instrument for up to 15 HART sensors



Application area

The VEGASCAN 693 is a signal conditioning and indicating instrument for up to 15 continuously measuring 4 ... 20 mA/HART sensors. Hence the measuring results from level, gauge and process pressure measurements can be easily transferred to control, visualization and remote data transmission systems. Interfaces and functions for connecting to networks and remote data transmission systems are integrated. It is particularly suitable for application in the area of local and global inventory management.

Your benefit

- Recording of up to 200,000 measured values with instruments with digital interface
- Simple integration into the Intranet/Extranet via integrated web server
- Measured value and message transmission via e-mail and SMS as well as data transmission to WEB-VV

Function

The VEGASCAN 693 signal conditioning instrument can power up to 15 HART sensors and process their digital measured values. The measured value transmission is carried out via a bus system (HART multidrop). The requested parameter is shown in the display and can also be outputted to one of the integrated interfaces and the web server. With instruments with optional interface, measured values can be retrieved via modem or network and indicated with the aid of a web browser or WEB-VV. In addition, it is possible to send a measured value or message via e-mail.

Technical data

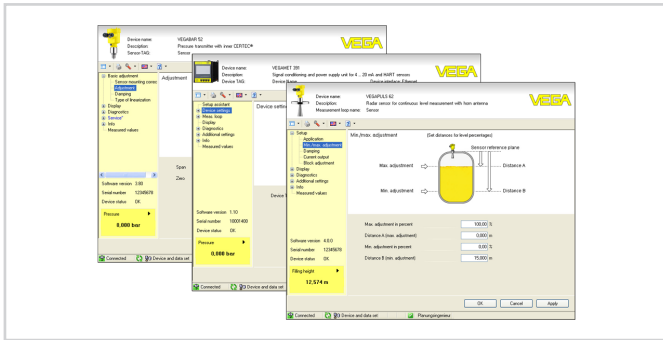
Series	Module unit with plug-in socket for mounting on carrier rail (35 x 7.5 according to DIN EN 50022/60715)
Connection terminals	
– Type of terminal	Screw terminal
– Max. wire cross-section	1.5 mm ² (AWG 16)
Operating voltage	20 ... 253 V AC, 50/60 Hz, 20 ... 253 V DC
Max. power consumption	12 VA; 7.5 W
Sensor input	
Number of sensors	15 x VEGA HART sensors (5 x with Ex version)
Type of input (selectable)	
– Active input	Sensor power supply by VEGASCAN
– Passive input	Sensor has an own power supply
Measured value transmission	
– HART multidrop protocol	digital for VEGA HART sensors
Cycle time until the next measured value update	max. 5 seconds (depending on the number of connected sensors)
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. 750 VA, max. 40 W DC
Ethernet interface (optional)	
Quantity	1 x, cannot be combined with RS232
Data transmission	10/100 MBit
RS232 interface (optional)	
Quantity	1 x, cannot be combined with Ethernet
Indicators	
Measured value indication	
– graphic-capable LC display (50 x 25 mm), with lighting	digital and quasianalogue indication
– Max. indicating range	-99999 ... 99999
LED displays	
– Status, operating voltage	1 x LED green
– Status, fault signal	1 x LED red
– Status interface	1 x LED green
Ambient conditions	
Ambient temperature	-20 ... +60 °C (-4 ... +140 °F)
Electrical protective measures	
Protection rating	
– Instrument	IP 30
– Terminal socket	IP 20

Approvals

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

Operation

The adjustment of VEGASCAN 693 is menu-driven via four keys in the front and a clear, graphic-capable LC display with background lighting. As an alternative, parameter adjustment of the instrument is also possible via the adjustment software PACTware and the respective DTM.

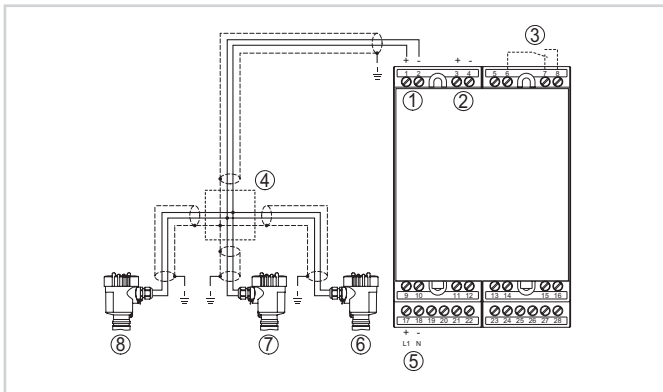


In the download section under www.vega.com/downloads you'll find free operating instructions, product information, brochures, approval documents, instrument drawings and much, much more.

Contact

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

Electrical connection

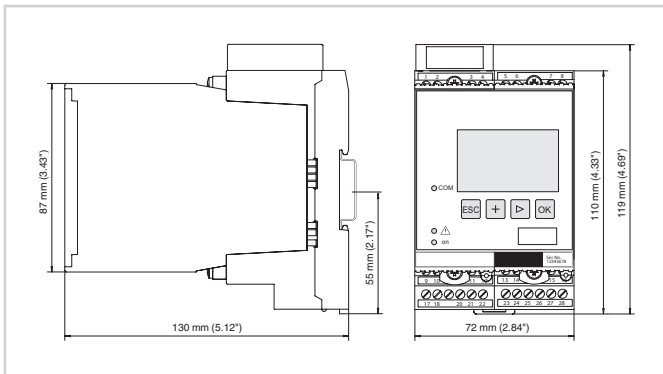


Connection example VEGASCAN 693 with two-wire sensors

- 1 Measurement data input with sensor supply (active input)
- 2 Measurement data input (passive input), not in Ex ia
- 3 Internal fail safe relay
- 4 Distributor
- 5 Voltage supply of VEGASCAN 693
- 6 HART two-wire sensor with Multidrop address 1
- 7 HART two-wire sensor with Multidrop address 2
- 8 HART two-wire sensor with Multidrop address 3

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.