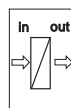




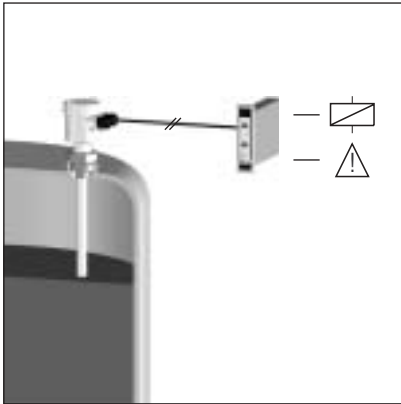
System components – Signal conditioning instruments and communication

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Application examples: Signal conditioning instruments and communication

Level detection

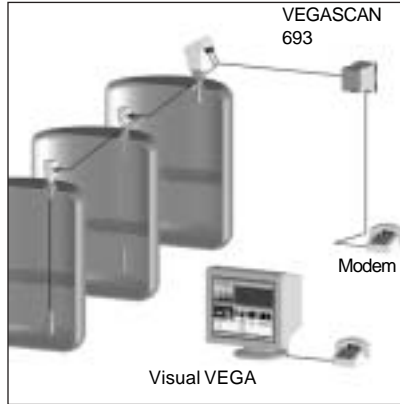


VEGATOR signal conditioning instruments power the connected sensor and output level-dependent switching signals via integrated relays.

For use with the following measuring principles:

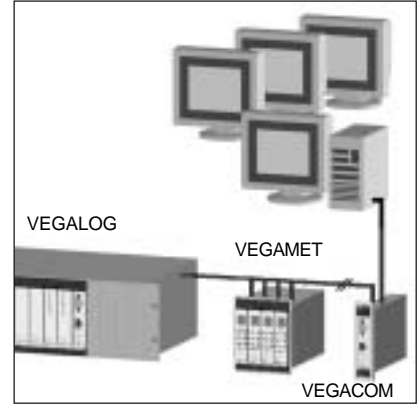
- capacitive
- vibration
- conductive

HART® multidrop remote



Easy visualisation of up to 5 levels or pressure transmitters by using the HART® multidrop technology. Best suited for remote enquiry via telephone connection (modem).

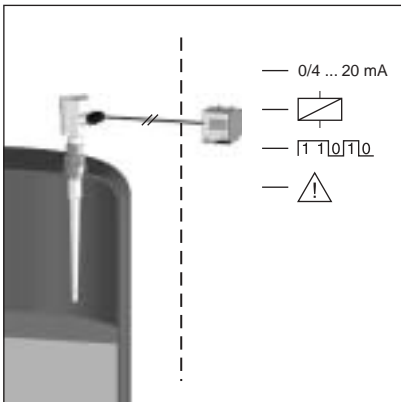
Digital communication



Digital communication of VEGALOG 571 processing system or single signal conditioning instruments e.g. via Profibus DP, Interbus, Modbus, Ethernet TCP/IP etc. to connected computer systems.

Sensor connection is made with standard 4 ... 20 mA technology or digitally via Profibus PA.

Continuous level measurement



VEGAMET signal conditioning instrument for continuous level measurement

VEGAMET signal conditioning instruments power the connected sensor and evaluate the signals microcomputer controlled.

For use with the following measuring principles (4...20mA/HART):

- capacitive
- hydrostatic
- ultrasonic
- radar
- guided microwave
- process pressure
- differential pressure

Overview

Level detection

Type VEGATOR	Inputs		Hysteresis	Level relay/transistor	Outputs		Approvals
	Instrument / Meas. principle	No. of sensors			Level switch / Min./Max. control	Fail safe relay/transistor	
256C	Conductive	1	1 / -	fix	1 / -	- / -	-
521	Capacitive Hydrostatic	1	1 / -	fix	1 / 1	1 / 1	WHG [EEx ia]
527	Capacitive Hydrostatic	2	2 or 1	fix (by sensor installation)	2 / 2	1 / 1	WHG [EEx ia]
536	Vibration	1	1 / -	fix	1 / 1	1 / 1	WHG, [EEx ia]
537	Vibration	2	2 or 1	fix	2 / 2	1 / 1	WHG, [EEx ia]
620	Capacitive Hydrostatic	1	1 / -	fix	1 / 1	- / -	-
621	Capacitive Hydrostatic	1	1 / -	fix	1 / 1	- / -	WHG, [EEx ia]
622	Capacitive Hydrostatic	1	- / 1	adjustable	1 / 1	- / -	WHG, [EEx ia]
631	Conductive	1	1 or 1 (depending on sensor type)	fix (by sensor installation)	1 / 1	- / -	WHG, [EEx ia]
636	Vibration	1	1 / -	fix	1 / 1	- / -	WHG, [EEx ia]

Continuous level measurement

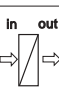
Type VEGAMET	Inputs		Current 0/4 ... 20 mA / Voltage 0/2 ... 10 V	Outputs		Approvals
	Instrument / Meas. principle	No. of sensors / Correction signal		DISBUS/ Ethernet/ RS232	Level relay / Fail safe relay	
381	4-20mA sensors HART®	1 / -	1 / -	0 / 0 / 0	2 / 1	
513	4-20mA sensors	1 / -	1 / 1	1 / 0 / 0	- / 1	WHG, [EEx ia]
514	4-20mA sensors	1 / 1	1 / 1	1 / 0 / 0	2 / 1	WHG, [EEx ia]
515	4-20mA sensors	2 / 2	3 / 3	1 / 0 / 0	2 / 1	WHG, [EEx ia]
624	4-20mA sensors HART®	1 / -	3 / 0	0 / 1 / 1	3 / 1	WHG, [EEx ia]
625	4-20mA sensors HART®	2 x HART® / -	3 / 0	0 / 1 / 1	3 / 1	WHG, [EEx ia]

Scanner

Type VEGASCAN	Inputs		Current 0/4 ... 20 mA / Voltage 0/2 ... 10 V	Outputs		Approvals
	Instrument / Meas. principle	No. of sensors / Correction signal		Ethernet/ RS232	Level relay / Fail safe relay	
693	HART®	15 / 0	-	1 / 1	0 / 1	[EEx ia]

Auxiliary level switch

Type VEGASEL	Inputs		Hysteresis	Outputs		Approvals
	Current 0/4 ... 20 mA / Voltage 0/2 ... 10 V	Level switch / Min./Max. control		Relay	Transistor	
643	1	- / 1	adjustable	1	1	WHG



VEGAMET 381

Single signal conditioning instrument and indication for continuous measurement with integrated level switches

Signal conditioning instrument and power supply unit for 4...20 mA sensors



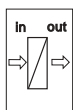
- processing of measured values with comprehensive adjustment functions, selectable scaling, simulation
- LC display for digital and quasianalogue presentation of measured values
- fault monitoring (short-circuit/interruption on the input, adjustment error, instrument error)
- for panel mounting, carrier rail 35 x 7.5 according to EN 50022 or direct wall mounting

Sensor input	: 4...20 mA with/without (active/passive) transmitter power supply
Relay output	: 2 x spdt; 1 x fault signal
Current output	: 1 x 0/4...20 mA
Indicating range	: -9999 up to +9999
Protection	: IP 40
Operating voltage	: 20...250V AC/DC

Approval

- XX** without
- CX** ATEX II (1) G D [EEx ia] IIC
- CA** ATEX II (1) G D [EEx ia] IIC + WHG

MET381.



VEGATOR 521

Single signal conditioning instrument for level signalling in 19" European size

For processing of levels with continuously measuring systems

- with adjustable integration time
- fault monitoring and fault signal
- with fixed adjusted switching hysteresis

Sensor input	: 1 x (capacitive electrode or pressure transmitter)
Relay output	: 1 x spdt
Transistor output	: 1 x
Fault signal	: 1 x fail safe relay and transistor
Protection	: IP30
Operating voltage	: 20...53V AC, 20...72V DC



Approval

.X without
EX0.A ATEX II (1) G D [EEx ia] IIC/IIB + WHG

TOR521

- Module for mounting into carrier see Accessory in this chapter
- Housing for single mounting see Accessory in this chapter

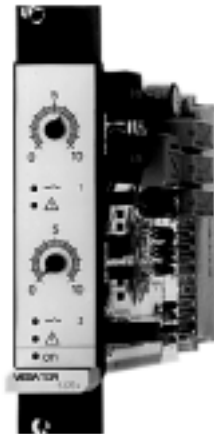
VEGATOR 527

Single signal conditioning instrument for level signalling in 19" European size

For processing of levels with continuously measuring systems

- with adjustable integration time
- fault monitoring and fault signal

Sensor input	: 2 x (capacitive electrodes, pressure transmitters)
Relay output	: 2 x spdt
Transistor output	: 2 x (with fixed switching hysteresis)
Fault signal	: 1 x fail safe relay and transistor
Protection	: IP30
Operating voltage	: 20...53V AC, 20...72V DC



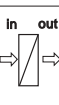
Approval

.X without
EX0.A ATEX II (1) G D [EEx ia] IIC/IIB + WHG

TOR527

- Module for mounting into carrier see Accessory in this chapter
- Housing for single mounting see Accessory in this chapter

VEGATOR 536, 537 (see chapter "Vibration")
VEGATOR 256C (see chapter "Conductive")



VEGAMET 513

Single signal conditioning instrument for continuous measurement in 19" European size

Signal conditioning instrument and power supply unit for 4...20 mA sensors

- adaptation to the application by easy selection of the appropriate functions (applications)
- processing of measured values with adjustable integration time, adjustment function, linearisation for individual vessel geometries, individually selectable scaling, allocation of measuring units
- digital output for connection to the control room and for wiring of up to 15 signal conditioning instruments
- fault monitoring (short-circuit/interruption on the input, instrument error)



Sensor input	: 4...20 mA with transmitter supply
Current output	: 1 x 0/4...20 mA
Voltage output	: 1 x 0/2...10 V
Relay output	: 1 x for fault signal
Digital output	: 1 x
Operating voltage	: 20...53V AC, 20...72V DC



Approval

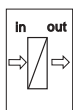
- without
- EX0.A** ATEX II (1) G D [EEx ia] IIC + WHG
- Ship approval

Language of the menu

- 01** German
- 02** English
- 03** French
- 04** Dutch
- 05** Italian



- Module for mounting into carrier see Accessory
- Housing for single mounting see Accessory



VEGAMET 514

Single signal conditioning instrument for continuous measurement in 19" European size

Signal conditioning instrument and power supply unit for 4...20 mA sensors

- integrated adjustment and indicating module
- adjustment also via PC with VVO
- adaptation to the application by easy selection of the appropriate functions (applications)
- processing of measured values with adjustable integration time, adjustment function, linearisation for individual vessel geometries, individually selectable scaling, allocation of measuring units
- digital output for connection to the control room and for wiring of up to 15 signal conditioning instruments
- fault monitoring (short-circuit/interruption on the input, instrument error)



Sensor input	: 4...20 mA with transmitter supply
	: 1 correction signal input (e.g. zero point or density correction)
Current output	: 1 x 0/4...20 mA
Voltage output	: 1 x 0/2...10 V
Relay output	: 2 x spdt; 1 x fault signal
Digital output	: 1 x
Operating voltage	: 20...53V AC, 20...72V DC

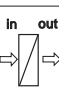


Instrument type

- MET 514 standard version
- N** MET 514 N as MET514, but without indicating/adj. module
- D** MET 514D for flow a. volume measurement (pulse outputs)
- Approval**
- .X** without
- EX0.A** ATEX II (1) G D [EEx ia] IIC + WHG
- .M** Ship approval
- Language of the menu**
- 01** German
- 02** English
- 03** French
- 04** Dutch
- 05** Italian



- Module for mounting into carrier see Accessory in this chapter
- Housing for single mounting see Accessory in this chapter



VEGAMET 515

Single signal conditioning instrument for continuous measurement in 19" European size

Signal conditioning instrument and power supply unit for sensors in the range of 4...20 mA



- integrated adjustment and indicating module
- adjustment via PC with VVO
- adaptation to the application by easy selection of the appropriate functions (applications)
- processing of measured values with adjustable integration time, adjustment function, linearisation for individual vessel geometries, individually selectable scaling, allocation of measuring units
- digital output for connection to the control room and for wiring of up to 15 signal conditioning instruments
- fault monitoring (short-circuit/interruption on the input, instrument error)

Sensor input	: 2 x 4...20 mA, transmitter power supply
	: 2 x correction signal input (e.g. zero point or density correction)
Current output	: 3 x 0/4...20 mA
Voltage output	: 3 x 0/2...10 V
Relay output	: 2 x spdt; 1 x fault signal
Digital output	: 1 x
Operating voltage	: 20...53V AC, 20...72V DC



Instrument type

MET515 standard version

N MET515N as MET515 but without indicating/adj. module

Approval

.X without

EX0.A ATEX II (1) G D [EEx ia] IIC + WHG

Configuration

A Two independent level measurements

B Level measurement in pressurized vessels

C Gauge difference measurement

D Level measurement with variable density

Language of the menu

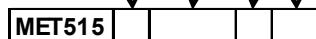
01 German

02 English

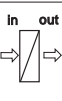
03 French

04 Dutch

05 Italian



- Module for mounting into carrier see Accessory in this chapter
- Housing for single mounting see Accessory in this chapter

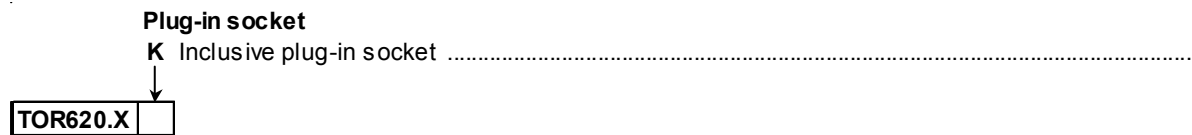


VEGATOR 620

Single signal conditioning instrument for level signalling
 For processing of levels with continuously measuring systems

- adjustable integration time
- mounting on carrier rail 35 x 7.5 according to EN 50022
- indication of the switching condition via LED

Sensor input : 1 x (capacitive electrode, pressure transmitter)
 Relay output : 1 x spdt (with fixed switching hysteresis)
 Protection : IP30
 Operating voltage : 20...250V AC, 20...72V DC

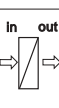
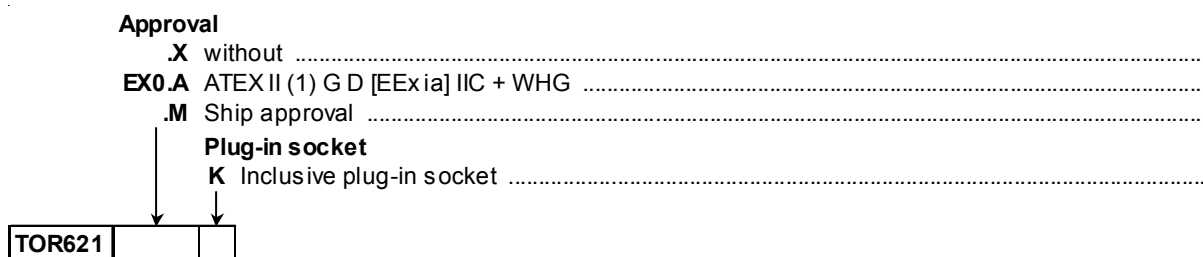


VEGATOR 621

Single signal conditioning instrument for level signalling
 For processing of levels with continuously measuring systems

- adjustable integration time
- mounting on carrier rail 35 x 7.5 according to EN 50022
- fault monitoring and fault signal via LED

Sensor input : 1 x (capacitive electrode, pressure transmitter)
 Relay output : 1 x spdt
 Transistor output : 1 x
 Protection : IP30
 Operating voltage : 20...250V AC, 20...72V DC



VEGATOR 622

Single signal conditioning instrument for level signalling

For processing of levels with continuously measuring systems

- adjustable integration time
- adjustable switching hysteresis
- fault monitoring and fault signal via LED
- mounting on carrier rail 35 x 7.5 according to EN 50022

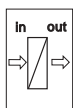
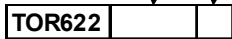


Sensor input : 1 x (capacitive electrode, pressure transmitter)
 Relay output : 1 x spdt
 Transistor output : 1 x
 Protection : IP30
 Operating voltage : 20...250V AC, 20...72V DC



Approval

- .X without
 - EX0.A** ATEX II (1) G D [EEx ia] IIC + WHG
 - .M Ship approval
- Plug-in socket**
- K** Inclusive plug-in socket



VEGATOR 631 (see chapter "Conductive")
 VEGATOR 636 (see chapter "Vibration")

VEGAMET 624

Single signal conditioning instrument for continuous measurement with integrated level switches

Signal conditioning instrument and power supply unit for a 4...20 mA/HART sensor



- level measurement, pressure measurement, tendency information, flow volume measurement, pump changeover function
- processing of measured values with comprehensive adjustment function, linearisation for individual vessel geometries as well as selectable scaling, data logger function with time stamp
- remote enquiry/remote diagnosis via modem (analogue, ISDN, GSM)/Ethernet (TCP/IP)
- limit value monitoring with alarm via e-mail or SMS
- visualisation with Visual VEGA or web browser (e.g. Internet Explorer)
- fault monitoring (short-circuit/interruption on the input, instrument error)
- mounting on carrier rail 35 x 7.5 according to EN 50022, incl. plug-in socket
- adjustment and indicating unit with background lighting (also remote adjustment of plics® sensors)
- adjustment also via PC with PACTware™ (with VEGACONNECT or via RS 232/Ethernet interface)

Sensor input	: 4...20mA/HART with/without (active/passive) transmitter power supply
Current output	: 3 x 0/4...20 mA
Relay output	: 3 x spdt; 1 x fault signal
Operating voltage	: 20...250V AC,DC

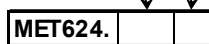


Approval

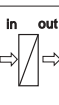
- XX** without
- CX** ATEX II (1) G D [EEx ia] IIC
- CA** ATEX II (1) G D [EEx ia] IIC + WHG
- CM** ATEX II (1) G D [EEx ia] IIC + ship approval

Connection

- X** without
- R** RS 232 connection incl. data logger and connection cable
- E** Ethernet incl. data logger



- For operation on a USB interface, a USB/RS232 adapter cable (article no. 2.26900) is available.
- For connection of VEGACONNECT 3 to a modem, the modem connection cable (special cable), article no. MODEM.KX will be required.



VEGAMET 625

Single signal conditioning instrument for continuous measurement with integrated level switches

Signal conditioning instrument and power supply unit for up to two HART sensors



- with 2 sensors: level or pressure measurement, differential measurement, flow volume measurement, tendency information
- with 1 sensor: level and temperature measurement, interface measurement and level measurement
- processing of measured values with comprehensive adjustment function, linearisation for individual vessel geometries as well as selectable scaling, data logger function with time stamp
- remote enquiry/remote diagnosis via modem (analogue, ISDN, GSM)/Ethernet (TCP/IP)
- limit value monitoring with alarm via e-mail or SMS
- visualisation with Visual VEGA or web browser (e.g. Internet Explorer)
- fault monitoring (short-circuit/interruption on the input, instrument error)
- mounting on carrier rail 35 x 7.5 according to EN 50022, incl. plug-in socket
- adjustment and indicating unit with background lighting (also remote adjustment of plics® sensors)
- adjustment also via PC with PACTware™ (with VEGACONNECT or via RS232/Ethernet interface)

Sensor input : 2 x HART sensors with/without (active/passive) transmitter power supply
 Current output : 3 x 0/4...20 mA
 Relay output : 3 x spdt; 1 x fault signal
 Operating voltage : 20...250V AC,DC



Approval

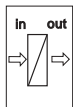
- XX** without
- CX** ATEX II (1) G D [EEx ia] IIC
- CA** ATEX II (1) G D [EEx ia] IIC + WHG
- CM** ATEX II (1) G D [EEx ia] IIC + ship approval

Connection

- X** without
- R** RS 232 connection incl.data logger and connection cable
- E** Ethernet incl. data logger

MET625.

- For operation on a USB interface, a USB/RS232 adapter cable (article no. 2.26900) is available.
- For connection of VEGACONNECT 3 to a modem, the modem connection cable (special cable), article no. MODEM.KX will be required.



VEGASCAN 693

Signal conditioning instrument for up to 15 HART sensors

Interface to modem (analogue, ISDN, GSM) or Ethernet (TCP/IP), data logger



- level measurement, pressure measurement, temperature measurement
- remote enquiry/remote diagnosis via modem (analogue, ISDN, GSM) or Ethernet (TCP/IP)
- visualisation with Visual VEGA or web browser (e.g. Internet Explorer)
- processing of measured values with adjustment function, linearisation for individual vessel geometries as well as selectable scaling
- limit value monitoring with alarm via e-mail or SMS
- automatic, time-driven transmission of levels via e-mail or SMS
- fault monitoring (short-circuit/interruption on the input, instrument error)
- mounting on carrier rail 35 x 7.5 according to EN 50022, incl. plug-in socket
- adjustment and indicating unit with background lighting (also remote adjustment of plics® sensors)
- adjustment also via PC with PACTware™ (with VEGACONNECT or via RS232/Ethernet interface)

Sensor input : up to 5 Ex or 15 HART sensors in Multidrop mode with/without (active/passive) transmitter power supply
 Relay output : 1 x fault signal
 Protection : IP 30
 Operating voltage : 20...250V AC,DC



Approval

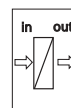
XX without
CX ATEX II (1) G D [EEx ia] IIC

Connection

R RS 232 connection incl. data logger and connection cable
E Ethernet incl. data logger

SCAN693.

- For operation on a USB interface, a USB/RS232 adapter cable (article no. 2.26900) is available.
- For connection of VEGACONNECT 3 to a modem, the modem connection cable (special cable), article no. MODEM.KX will be required.



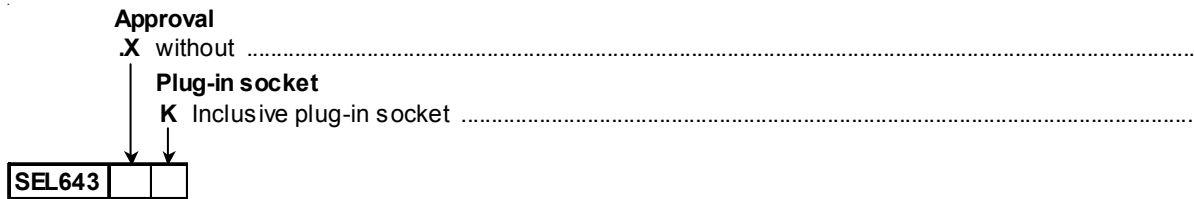
VEGASEL 643

Auxiliary level switch and signal conditioning instrument for carrier rail mounting

Suitable if an auxiliary level switch is required

- 1-channel
- with adjustable switching hysteresis
- mounting on carrier rail 35 x 7.5 according to EN 50022

Current input	: 1 x 0/4...20 mA
Voltage input	: 1 x 0/2...10 V
Relay output	: 1 x spdt
Transistor output	: 1 x
Protection	: IP30
Operating voltage	: 20...250V AC, 20...72V DC



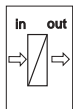
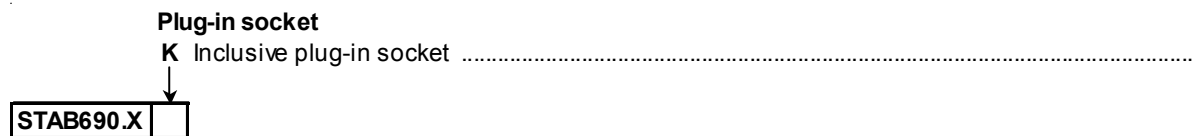
VEGASTAB 690

Power supply unit for supply of 2 analogue sensors

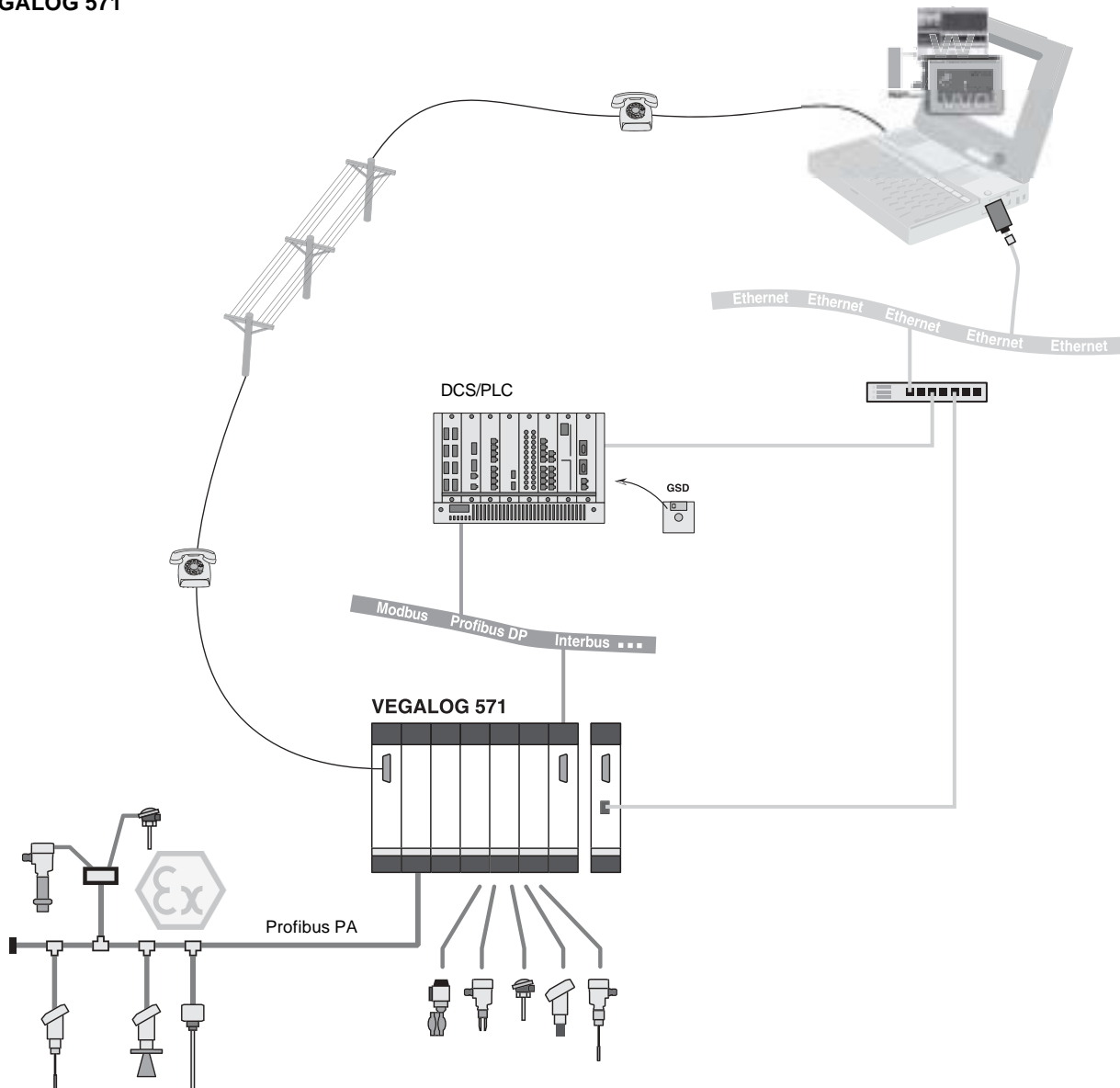
Independent supply of 2 x 4...20 mA sensors

- Fastening on carrier rail 35 x 7.5 according to EN 50022

Output	: 2 x 24V DC (floating; short-circuit proof)
Protection	: IP30
Operating voltage	: 20...250V AC, 20...72V DC



VEGALOG 571



System configuration

VEGALOG 571 is a central processing system with modular construction. It consists of a carrier with integrated bus board for communication and automatic module determination, a CPU card and various input and output cards.

The cards are designed as module cards in European size (DIN 41 494) with 5 TE width and can be composed individually according to the requirements. The cards require a supply voltage of 24 V DC. The supply voltage can be provided e.g. by the power supply unit VEGASTAB 593.

The max. configuration comprises 2 completely equipped carriers connected via LOGBUS connection cable. Hence 32 modules are available, whereby up to 31 peripheral cards can be connected.

Central unit

The central unit (CPU card) takes over the complete digital communication (LOGBUS) among the individual cards. It is responsible for all calculating tasks, e.g. scaling, linearisation, differential generation with a differential measurement etc.

Adjustment

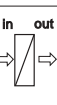
The setup and adjustment of the system is made via the RS232 interface of the CPU or via Ethernet (VEGACOM 558 necessary) and a standard PC in conjunction with the menu-driven adjustment program PACTware™/DTM.

Visualisation

The visualisation program »Visual VEGA« is available for graphic and tabular presentation of the measured values. Data of all measurement loops can be transmitted to the PC via the RS 232 interface and are displayed and saved there.

Digital connection

With the interface converters VEGACOM 557 (e.g. Profibus DP) and VEGACOM 558 (Ethernet), VEGALOG 571 can be connected digitally via standard bus systems/standard protocols to connected systems (DCS, PLC, PC). The measured values, diagnosis information can be enquired there and certain parameter modifications can be carried out.



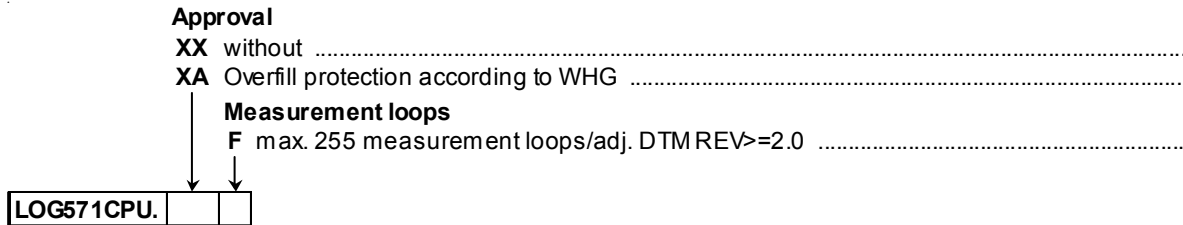
VEGALOG 571 CPU

Central unit for VEGALOG 571 processing system

Processing of the measuring signal, card management, arithmetic functions

- up to 255 measurement loops can be processed
- adjustment via PC with VVO/PACTware
- directly on the RS232, via modem or Ethernet TCP/IP (VEGACOM 558)
- special arithmetic functions for several inputs
- adaptation to the application by simple selection of appropriate functions (applications)
- measured value processing with adjustable integration time, adjustment function, linearisation for individual vessel geometries, individually selectable scaling, allocation of measuring units
- visualisation with Visual VEGA (VV) or Internet Explorer (VEGACOM 558)

Interfaces : RS232 on the front
 Operating voltage : 18...36 V DC



- For connection with the cellular phone modem (MODEM.JX) and the industrial modem (MODEM.FX) the RS232-connection cable (1 to 1 cable), article no. 2.32402 is required.
- For operation on a USB interface, a USB/RS232 adapter cable (article no. 2.26900) is available.
- For connection to the RS232-interface of a PC, the RS232-connection cable (interlink cable), article no. LOG571.17347 is required.

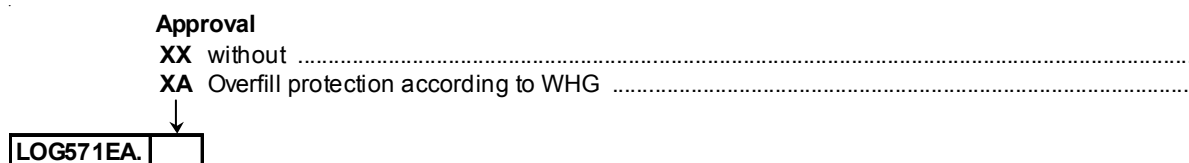
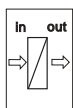
VEGALOG 571 EA-card

Input card for 4...20 mA sensors

Transmitter power supply and current signal processing for up to 10 sensors

- for connection of max. 10 sensors with analogue signal transmission
- with transmitter power supply (active) in the range of 4...20 mA
- without transmitter power supply (passive) in the range of 0...20 mA
- active or passive also mixed

Operating voltage : 18...36 V DC



- Suitable carrier see Accessory in this chapter

VEGALOG 571 EP-card

Input card Profibus PA for VEGALOG 571

Takes over the power supply, data communication and the address management of the connected Profibus PA sensors

- Ex version according to FISCO model
- automatic addressing

Operating voltage : 18...36 V DC
 Input Profibus PA : max. 15 sensors with non-Ex, max. 10 sensors with Ex

Approval

XX without
CX ATEX II(1)G D [EEx ia] IIC



LOG571EP.

- Suitable module see Accessory in this chapter

VEGALOG 571 AA-card

Output card with current outputs in the range of 0...20 mA

For connection of actuators or indications

- connection of up to 10 field instruments

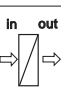
Operating voltage : 18...36 V DC
 Outputs : 10 x 0...20 mA
 Load : max. 750 Ohm

Approval

XX without
XA Overfill protection according to WHG



LOG571AA.



VEGALOG 571 AR-card

Relay output card

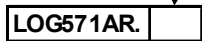
To output levels, sum or single failure messages

- for connection of binary input cards such as e.g. of PLC systems
- indication of the switching status of the individual relay outputs
- more than one relay can be allocated to each measurement loop
- configuration of the relays and indication of the switching condition via software

Operating voltage : 18...36 V DC
 Outputs : 10 relays

Approval

- XX** without
- XA** Overfill protection according to WHG



VEGALOG 571 AT-card

Transistor output card

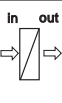
To output levels, sum or single failure messages

- for connection of binary input cards such as e.g. of PLC systems
- indication of the switching status of individual transistor outputs
- multiple allocation per input of the transistor outputs possible
- configuration of the transistor outputs and indication of the switching status via software

Operating voltage : 18...36 V DC
 Outputs : 10 transistor outputs (short-circuit proof)

Approval

- XX** without
- XA** Overfill protection according to WHG



VEGACOM 557

Gateway/interface converter in 19" European size

Connection of VEGA systems to PLC, PC and process control systems via standard bus systems

- the measuring data are summarized centrally and are provided depending on the selected protocol version
- in addition, VEGACOM 557 provides an RS232-interface for the adjustment software VEGA Visual Operating (VVO) and the visualisation software Visual VEGA (VV)
- remote enquiry with modem via the telephone network on the RS232 interface

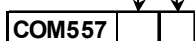


Meas. data input : for VEGALOG 571 and VEGAMET
 Interfaces : RS485, RS422, RS232, TTY (depending on the communication protocol)
 Operating voltage : RS232 C in the front : 20...53V AC, 20...72V DC

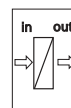


Approval

- without
- Software protocol**
- A** Siemens S5 (3964/3964R procedure with RK512)
- B** Modbus (RTU and ASCII)
- I** Interbus S
- P** Profibus DP
- S** Profibus FMS
- N** VEGA-ASCII
- Without Fieldbus protocol



- For connection with the cellular phone modem (MODEM.JX) and the industrial modem (MODEM.FX) the RS232-connection cable (1 to 1 cable), article no. 2.32402 is required.
- For operation on a USB interface, a USB/RS232 adapter cable (article no. 2.26900) is available.
- For connection to the RS232-interface of a PC, the RS232-connection cable (interlink cable), article no. LOG571.17347 is required.

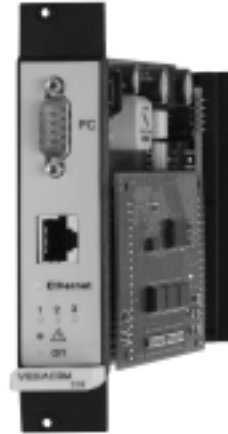


VEGACOM 558

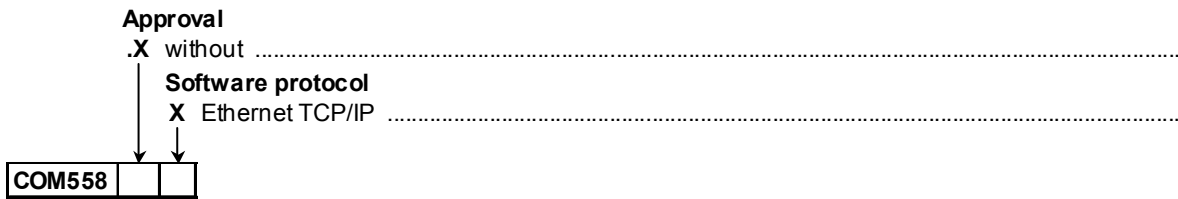
Interface converter/Gateway in 19" European size

For connection of the VEGA processing systems to Ethernet TCP/IP

- visualisation and archive via Ethernet TCP/IP with the program Visual VEGA (VV)
- processing of measured values in HTML format for the standard browser
- transmission of the measured values to PLC/DCS via MODBUS TCP/IP
- transmission of the measured values in an e-mail
- adjustment of the field and signal conditioning instruments via Ethernet
- remote enquiry with modem via the telephone network on the RS 232 interface



Meas. data input : for VEGALOG 571 and VEGAMET
 Interfaces : RJ45 with 10/100 Mbit/s
 : RS 232
 Operating voltage : 20...53V AC; 20...72V DC



- For connection with the cellular phone modem (MODEM.JX) and the industrial modem (MODEM.FX) the RS232-connection cable (1 to 1 cable), article no. 2.32402 is required.
- For operation on a USB interface, a USB/RS232 adapter cable (article no. 2.26900) is available.
- For connection to the RS232-interface of a PC, the RS232-connection cable (interlink cable), article no. LOG571.17347 is required.

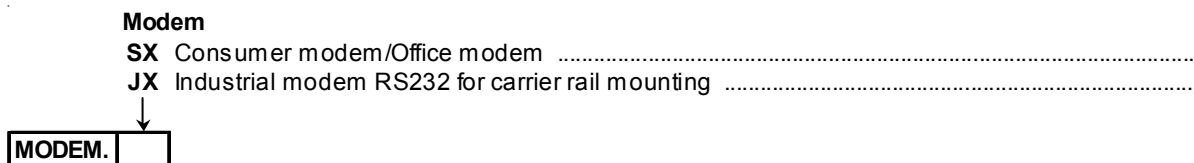
Analogue modem

Analogue consumer or industry modem

For remote enquiry of measured values and remote parameter adjustment with communication-capable VEGA instruments with VV (Visual VEGA) and PACTware™.

Industry modem:

- world-wide use
- adapted to the industrial requirements of remote inquiry and maintenance
- interference-free operation even under difficult EMC conditions
- high precision 3-way separation and integrated overvoltage protection (VCC // RS232 // PTSN)
- mounting on carrier rail 35 x 7.5 according to EN 50022
- RS 232 interface



For operation on a USB interface, a USB/RS232 adapter cable (article no. 2.26900) is available.

VEGACONNECT 3 (see chapter "Indication and adjustment")

Cellular phone modem

for GSM 900/1800 MHz mobile phone network

For wireless remote enquiry and remote parameter adjustment of communication-capable VEGA instruments with VV (Visual VEGA) or PACTware™

Approval for Europe

Operating requirements: card agreement with released data transmission and deactivated pin. Sufficient networking at the mounting location

Consisting of: radio modem, power supply unit, antenna
Interface: RS232



MODEM.FX

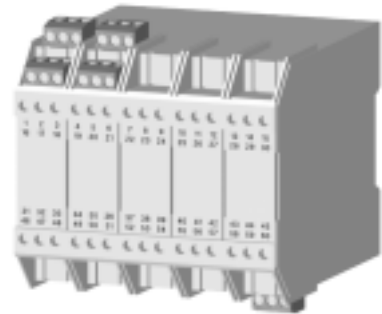
For operation on a USB interface, a USB/RS232 adapter cable (article no. 2.26900) is available.

Profibus DP/PA segment coupler

Coupling of a Profibus PA segment to Profibus DP

For power supply and coupling of Profibus PA

- up to 10 Ex or 32 non-Ex field instruments can be connected to the PA segment
- power supply of the Profibus PA segment
- transparent and master-independent and therefore no own addressing
- for Ex field instruments according to the FISCO model
- fastening on carrier rail 35 x 7.5 mm according to EN 50022 or wall mounting



Operating voltage	: 20...35V DC (Ex)
	: 20...30V DC (non-Ex)
Current consumption	: 200...350 mA (Ex)
	: 460...680 mA (non-Ex)
Housing width	: 100 mm (Ex)
	: 80 mm (non-Ex)
Profibus DP (RS 485)	: 93.75 kbit/s (fixed adjusted baud rate)
Profibus PA (IEC 61158)	: 31.25 kbit/s (fixed adjusted baud rate)
Nominal output Profibus PA	: 13V, 100 mA (Ex)
	: 24V, 400 mA (non-Ex)

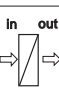


Approval

.X without

EX.X ATEX II (1) G D [EEx ia] IIC

PA-KOPPLER

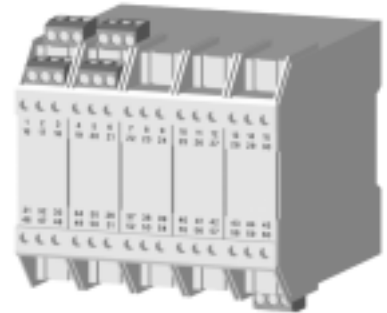


PA coupler SK-2

Profibus DP/PA power supply module

In conjunction with SK-2 Gateway KLD2-GT-DP.1PA
Coupling of a Profibus PA segment to Profibus DP

Operating voltage	: 20...35V DC (Ex)
	: 20...30V DC (non-Ex)
Current consumption	: 200...350 mA (Ex)
	: 460...680 mA (non-Ex)
Housing width	: 100 mm (Ex)
	: 80 mm (non-Ex)
Profibus DP (RS 485)	: 45.45 Kbit/s up to 12 Mbit/s with Gateway
Profibus PA (IEC 61158)	: 31.25 Kbit/s (fixed adjusted baud rate)
Nominal output	
Profibus PA	: 13V, 100 mA (Ex)
	: 24V, 400 mA (non-Ex)



Approval

.X without

EX.X ATEX II (1) G D [EEx ia] IIC

PA-KOPPLERSK2

PA coupler SK-2 Gateway

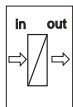
Coupling of a Profibus PA segment to Profibus DP with up to 12 Mbit/s

Use in conjunction with power supply module PA coupler SK2.X or PA coupler SK2.EX.X.

- supports all standard baud rates up to 12Mbit/s on Profibus DP
- transparent and master-independent and therefore no own planning and address assignment necessary
- mounting on carrier rail 35 x 7.5 mm according to EN 50022 or wall mounting



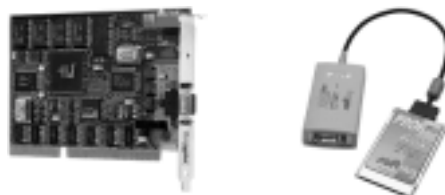
KLD2-GT-DP.1PA



Profibus PC cards

Connection of a PC or Laptop with a Profibus DP segment

For connection of a PC with PACTware™/VVO with a Profibus DP segment for access to Profibus PA field devices.



Version

- 24655** PROFIBOARD: Profibus PCMCIA-Interface for Laptop
- 24656** PROFIBOARD: Profibus PCI-Interface for PC

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2.	
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Profibus T-connector

Single and multiple distributor for Profibus PA bus systems

For professional coupling of Profibus PA transmitters to the Profibus PA bus cable



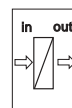
- 1, 2, 4 and 8-fold star distributor
- EMC cable connection or M12 plug connection
- non-Ex versions with integrated termination (bus termination)
- Ex-version with separate termination (bus termination 2.25062)

Version

- 29322** 1-way Profibus PA T-distributor EMC screwed cable gland
- 29323** 2-way Profibus PA T-distributor EMC screwed cable gland
- 29324** 4-way Profibus PA T-distributor EMC screwed cable gland
- 29326** 1-way Profibus PA T-Connector M12 plug connection
- 27372** 2-way Profibus PA T-distributor M12 plug connection
- 27371** 4-way Profibus PA T-distributor M12 plug connection
- 25061** 1-way EEx Profibus PA T-distributor EMC scr.cable gland
- 29314** 2-way EEx Profibus PA T-distributor EMC screwed cable gland
- 29316** 4-way EEx Profibus PA T-distributor EMC screwed cable gland
- 29318** 1-way EEx Profibus PA T-distributor M12 plug connection
- 29319** 2-way EEx Profibus PA T-distributor M12 plug connection
- 29320** 4-way EEx Profibus PA T-distributor M12 plug connection
- 25062** FBCon EEx BUS terminator w.o stopper/w.o ground connection

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2.	
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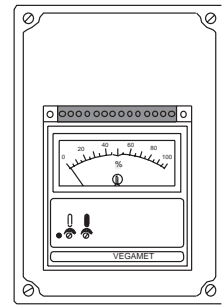
Housing IP 65 for series 300

Isolation protection housing with transparent cover for surface mounting

For one series 300 instrument

- inclusive carrier rail 35 x 7.5 according to EN 50022

Protection : IP65



ISO-GEH300.

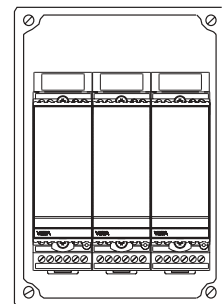
Housing IP 65 for series 600

Isolation protection housing with transparent cover for surface mounting

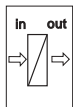
For max. 3 series 600 instruments with 36 mm width or 1 instrument with 72 mm width

- inclusive carrier rail 35 x 7.5 according to EN 50022

Protection : IP65



ISO-GEH600.



Module (33-pole)

for mounting into carrier BGT 596

suitable for series 500 instruments

- 1 multipoint connector DIN 41612, series F, 33-pole (d, b, z) with coded pin
- 2 screws, 2 guide rails

Connection

- A. Wire-Wrap standard connection 1.0x1.0mm
- B. Plug connection 2.8x0.8mm
- C. Termi-Point connection 1.6x0.8mm
- D. Soldering connection



STECKPLATZ-33

Module Ex (33-pole)

for mounting into carrier BGT 596

suitable for series 500 Ex instruments

- 1 multipoint connector DIN 41612, series F, 33-pole (d, b, z) with coded pin
- 2 screws, 2 guide rails and 1 separating chamber

Connection

- A. Wire-Wrap standard connection 1.0x1.0mm
- B. Plug connection 2.8x0.8mm
- D. Soldering connection



STECKPLATZ-EX-33

- Note: also suitable for VEGALOG 571 EP-Ex card.

Blind cover

Blind cover with screws for 19" carrier

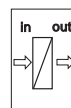
Width: 5 TE

Blind cover

18762 5 TE (=25.4mm) width



2.



Housing type 505

Plastic housing for single mounting of series 500 instruments

For carrier rail or surface mounting of 19" European cards

- Instruments : series 500 with width 5 TE
- Connection : 33-pole plug-in socket
- Fastening : surface mounting on carrier rail 35 x 15 according to EN 50022
- Protection : IP20



Power supply unit

- X** Without
 - A** With power supply unit for supply voltage 90...250VAC
- Approval**
- .X** without
 - .M** Ship approval

GEH505

VEGASTAB 593-60

Power supply unit in 19" European size

Voltage supply for series 500 instruments

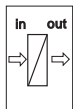
- Module (inclusive) : plug 6.3 mm
- : multiple plug series H, 15-pole
- Output : 24V DC, 45 W



Approval

- .X** Without
- Operating voltage**
- B** 115VAC
 - A** 230VAC
- Module**
- B** Plug 6.3mm

STAB593-60



VEGASTAB 593

Power supply unit in 19" European size
Voltage supply for series 500 instruments

Module (inclusive) : plug 6.3 mm
: multiple plug series H, 15-pole
Output : 24V DC, 120 W



STAB593

BGT 596

19" carrier for series 500 instruments
For mounting into 19" cabinets and housings

- inclusive 4 TE blind cover

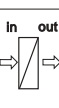
Width : 84 TE
Height : 3 HE



Approval

without
 EX.M ATEX + ship approval

BGT596



VEGALOG 571 BGT

19" carrier for the VEGALOG 571 processing system

For mounting into 19" cabinets and housings

- integrated bus board (LOGBUS) for max. 16 VEGALOG 571 cards
- 2 carriers connectable with LOGBUS connection cable
- inclusive 4 TE blind cover

Width : 84 TE
 Height : 3 HE

LOG571BT.

VEGALOG 571 module

Module for mounting into carrier BGT LOG 571

Suitable for all VEGALOG cards as well as VEGACOM 557/558. Not VEGALOG 571EP EX card.

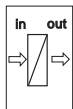
Scope of delivery: 1 multipoint connector DIN 41 612, series F
 48-pole (d, b, z) with coded pin
 2 screws
 2 guide rails

Connection

- A. Wire-Wrap standard connection 1.0x1.0mm
- B. Plug connection 2.8x0.8mm
- C. Termi-Point standard connection 1.6x0.8mm
- D. Soldering connection
- E. Screw terminals 0.5mm²

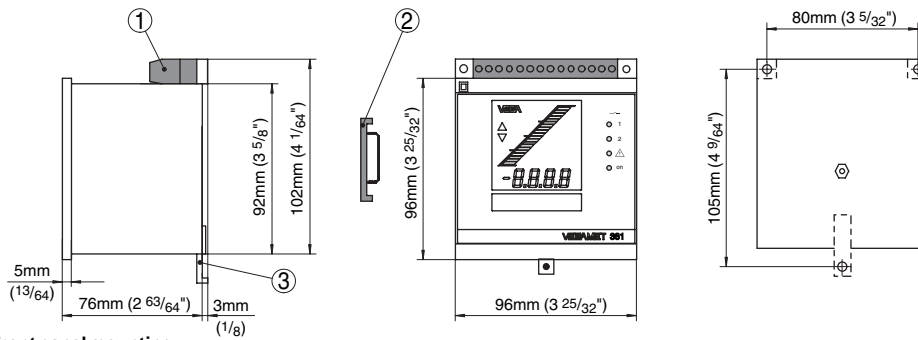
STECKPLATZ-48

- Blind covers with fixing screws see Accessory in this chapter
- Note: Ex module for VEGALOG 571 EP-Ex card see Accessory in this chapter

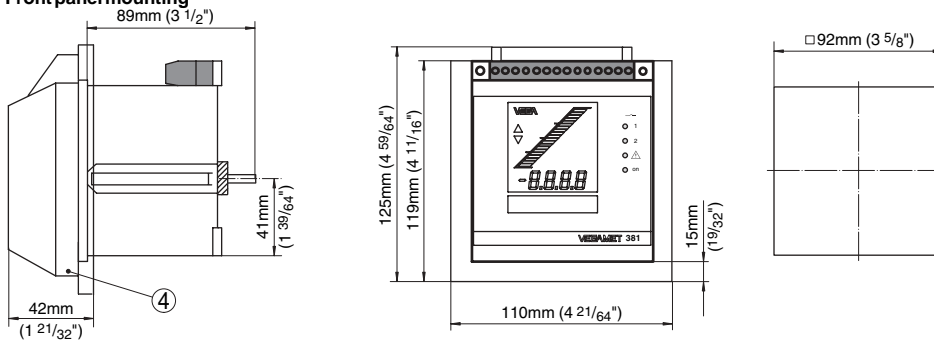


Series 300

Surface mounting

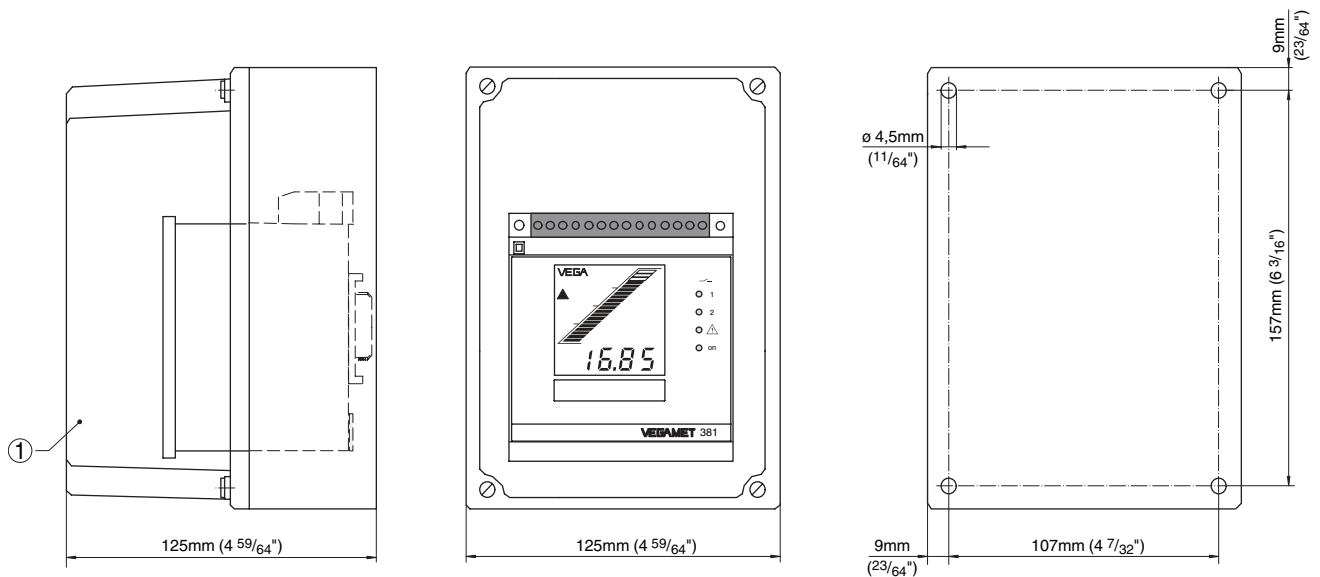


Front panel mounting

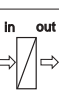


- 1 Pluggable terminal board
- 2 Adapter plate for mounting on 35x7.5 or 35x15 according to EN 50022
- 3 Metal sleeve
- 4 Transparent cover

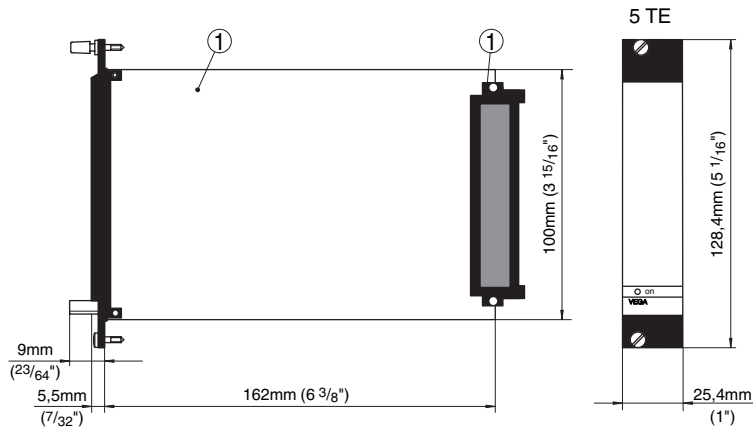
Iso housing IP 65 for series 300



- 1 Transparent cover

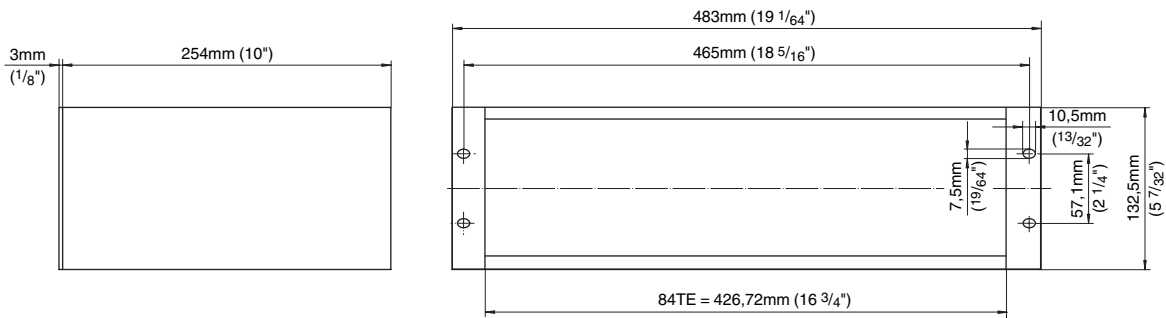


Series 500

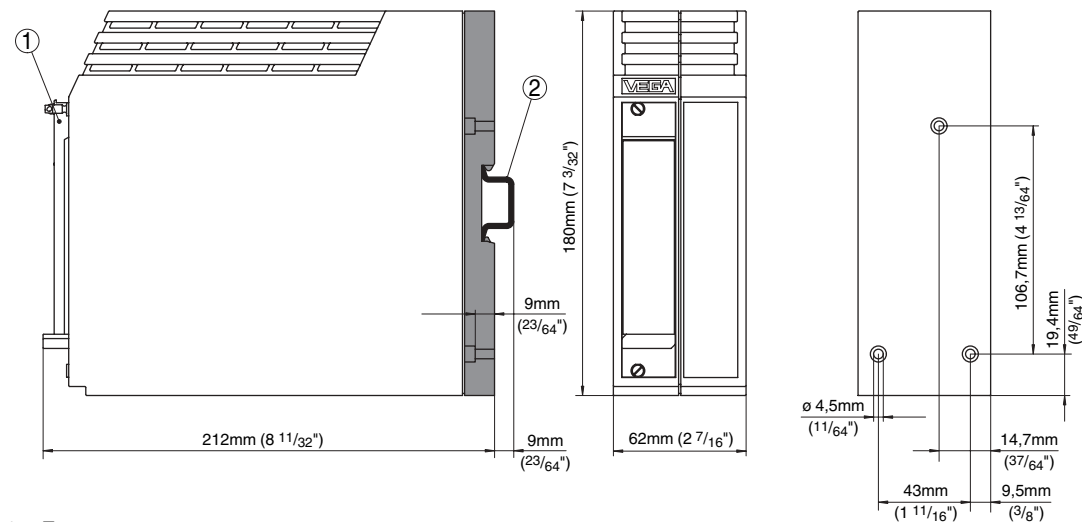


- 1 Circuit board 100x160x1.5 European size
- 2 Multipoint connector

Carrier BGT 596, BGT 596 Ex, BGT LOG 571



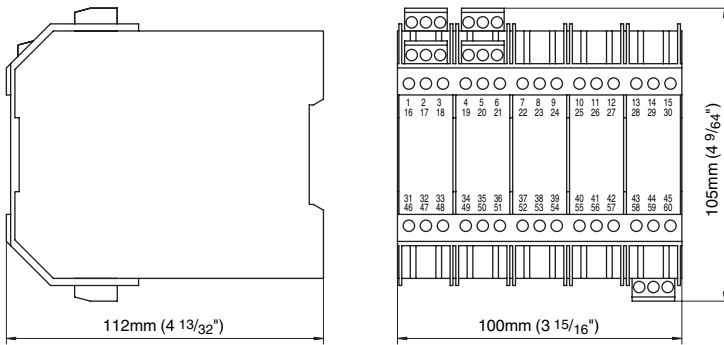
Housing type 505



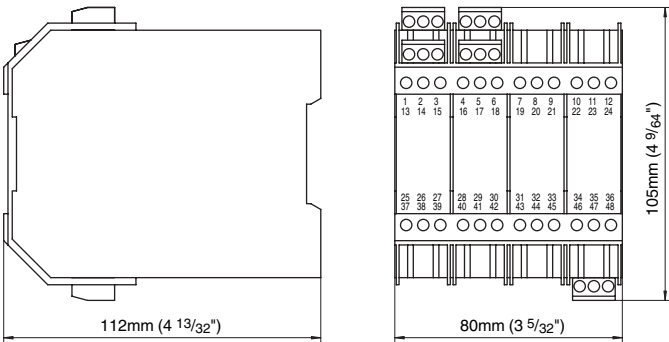
- 1 Transparent cover
- 2 Carrier rail 35x15 according to EN 50022

- For series 500 signal conditioning instruments with 33-pole multipoint connector

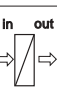
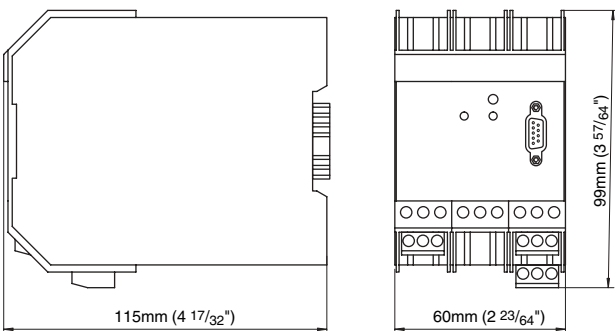
Profibus DP/PA segment coupler Ex
Profibus PA power supply module SK2 Ex



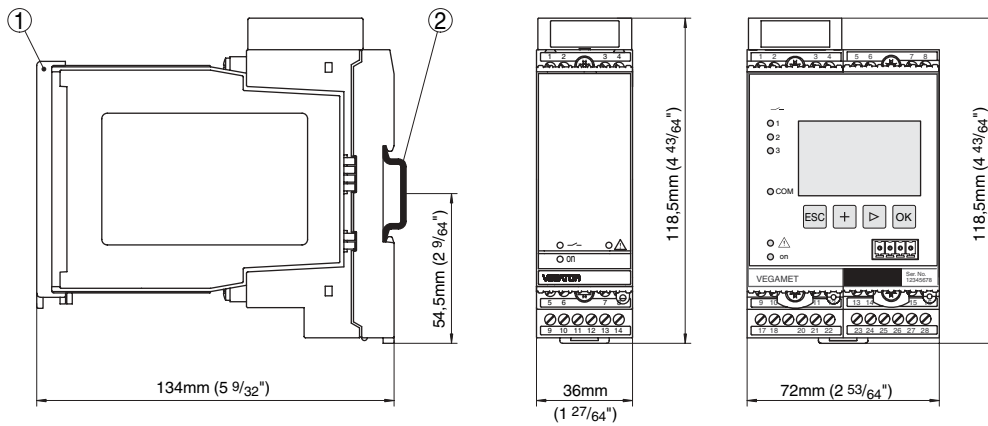
Profibus DP/PA segment coupler
Profibus PA power supply module SK2



Profibus PA segment coupler SK2 Gateway



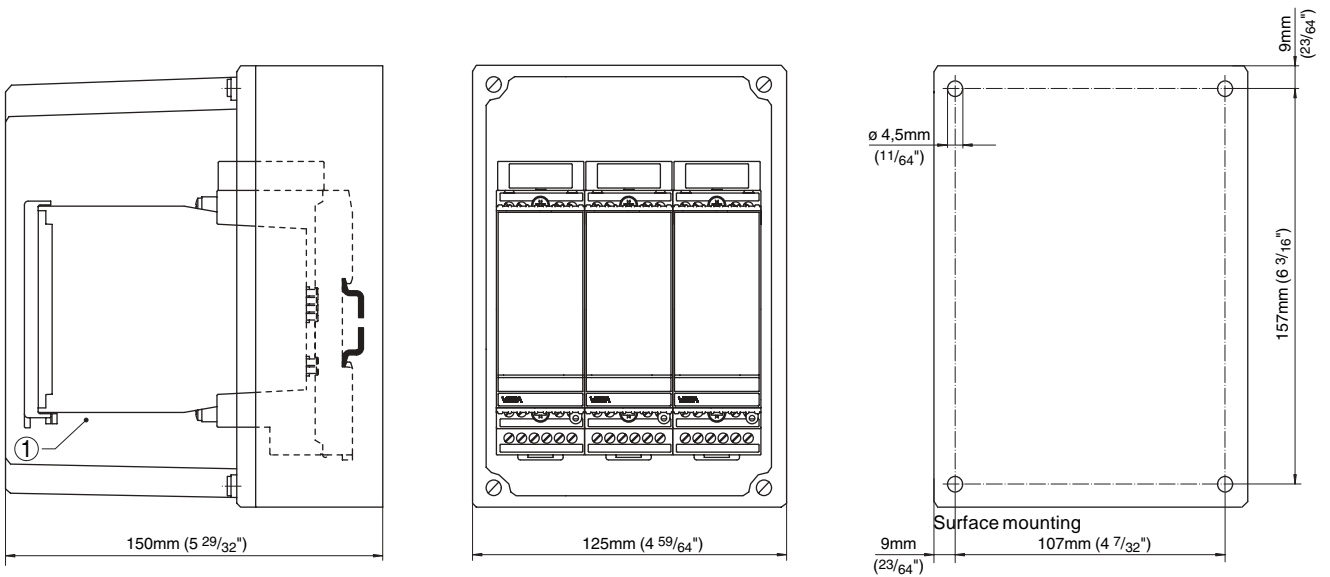
Series 600



- 1 Transparent cover
- 2 Carrier rail 35x7.5 or 35x15 according to EN 50022

Width 36 mm: VEGATOR 620, 621, 622, VEGASEL 643, VEGASTAB 690
 Width 72 mm: VEGAMET 624, VEGAMET 625, VEGASCAN 693

Iso housing IP 65 for series 600



- 1 Transparent cover

