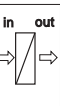




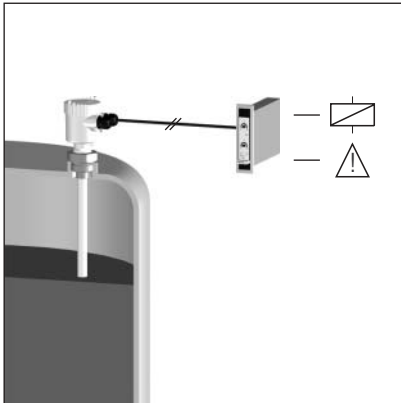
System components - Signal conditioning instruments and communication

Application examples	210
Series 300	212
Series 500	213
Series 600	217
VEGALOG 571	223
Communication components	227
Accessory	233
Dimensions	238



Application examples: Signal conditioning instruments and communication

Level detection

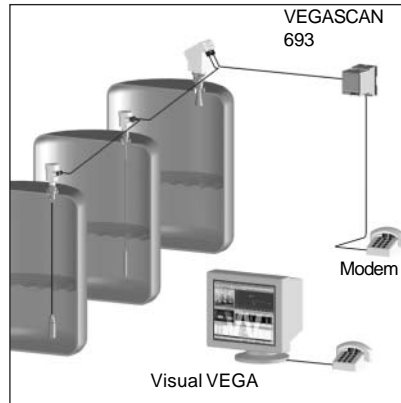


VEGATOR signal conditioning instruments power the connected sensor and output level-dependent switching signals via integrated relays.

For use with the following measuring principles:

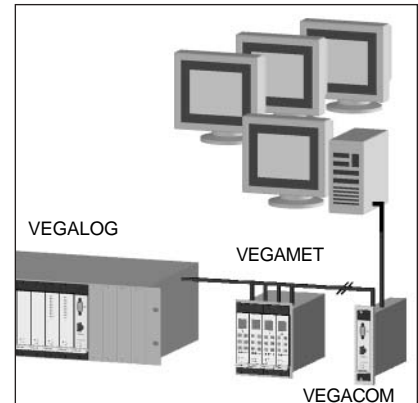
- capacitive
- vibration
- conductive

HART® multidrop remote enquiry



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).

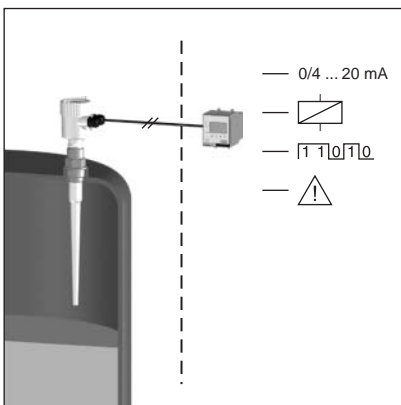
Digital communication



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	Outputs		Approvals
	Instrument / Meas. principle	No. of sensors	Level switch / Min./Max. control		Level relay/transistor	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

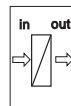
Type VEGAMET	Inputs		Current 0/4 ... 20 mA / Voltage 0/2 ... 10 V	Outputs		Approvals
	Instrument / Meas. principle	No. of sensors / Correction signal		DISBUS/ Ethernet/ RS 232	Level relay / Fail safe relay	
381	4-20mA sensors HART®	1 / -	1 / -	0 / 0 / 0	2 / 1	
513	4-20mA sensors	1 / -	1 / 1	1 / 0 / 0	- / 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/ RS 232	Level relay / Fail safe relay	
693	HART®	5 / 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

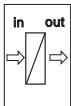
Signal conditioning instrument and power supply unit for 4...20 mA sensors



- 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)
- interface for VEGACONNECT for parameter adjustment of 4...20 mA / HART sensors
- for panel mounting, carrier rail 35 x 7.5 acc. 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

MET381.XX



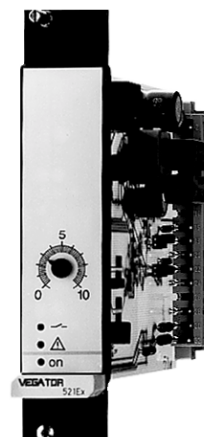
VEGATOR 521

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
- .M Ship approval

TOR521

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

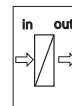
VEGATOR 527

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
- .M Ship approval

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 fault signal
Digital output	: 1 x
Operating voltage	: 20...53V AC, 20...72V DC

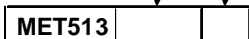


Approval

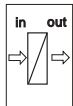
- .X without
- EX0.A ATEX II (1) G D [Ex ia] IIC + WHG overfill protection
- .M Ship approval

Language of the menu

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



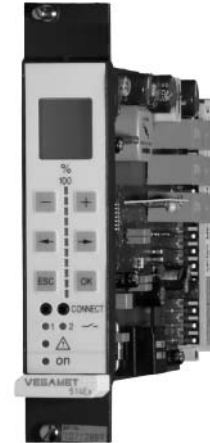
- Module for mounting into carrier see Accessory
- Housing for single mounting see Accessory



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



MET 514 standard version

MET 514 N as MET514, but without indicating/adj. module

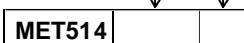
MET 514D for flow a. volume measurement (pulse outputs)

Approval

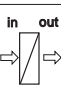
- without
- EX0.A** ATEX II (1) G D [EEx ia] IIC + WHG
- .M** Ship approval

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 analogue 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



MET515 standard version

MET515N as MET515 but without indicating/adj. module

Approval

.X without

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

.M Ship approval

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

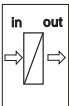
01 German

02 English

03 French

04 Dutch

05 Italian



MET515 [] [] [] []

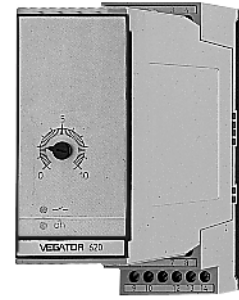
- Module for mounting into carrier see Accessory in this chapter
- Housing for single mounting see Accessory in this chapter

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 acc. 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



Plug-in socket

K inclusive socket

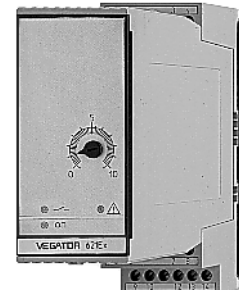
TOR620.X

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 acc. 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



Approval

.X without

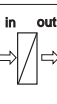
EX0.A ATEX II (1) G D [EEx ia] IIC + WHG

.M Ship approval

Plug-in socket

K inclusive socket

TOR621



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 acc. to EN 50022



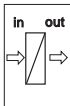
Sensor input	: 1 x (capacitive electrode, pressure transmitter)
Relay output	: 1 x spdt
Transistor output	: 1 x
Protection	: IP30
Operating voltage	: 20...250V AC, 20...72V DC



Approval

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

TOR622		
--------	--	--



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, 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 email 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 acc. 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)

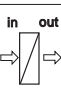
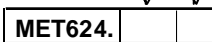
Sensor input	: 4...20 mA / HART with/without (active/passive) transmitter power supply
Current output	: 3 x 0/4...20 mA
Relay output	: 3 x spdt; 1 x fault signal
Operating voltage	: 20...250V AC,DC

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



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
- 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 email 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 acc. 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	: 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

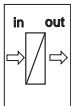
CX ATEX II (1) G D [EEx ia] IIC

Connection

X without

R RS 232 connection incl. data logger and connection cable

E Ethernet incl. data logger



MET625. [] [] []

VEGASCAN 693

Signal conditioning instrument for up to 5 HART sensors

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



- level measurement, pressure measurement, interface 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, data logger function with time stamp
- limit value monitoring with alarm via email or SMS
- automatic, time-driven transmission of levels via email or SMS
- fault monitoring (short-circuit/interruption on the input, instrument error)
- mounting on carrier rail 35 x 7.5 acc. 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	: up to 5 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

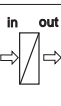
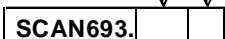
XX without

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

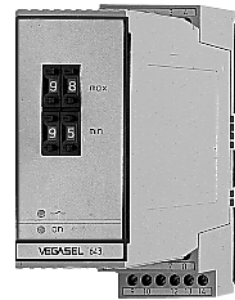


VEGASEL 643

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 acc. 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

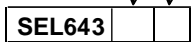


Approval

.X without

Plug-in socket

K inclusive socket

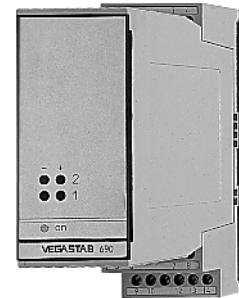


VEGASTAB 690

Power supply unit for supply of 2 analogue sensors

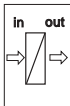
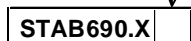
Independent supply of 2 x 4...20 mA sensors

- Fastening on carrier rail 35 x 7.5 acc. to EN 50022
- Output : 2 x 24V DC (floating; short-circuit proof)
- Protection : IP30
- Operating voltage : 20...250V AC, 20...72V DC

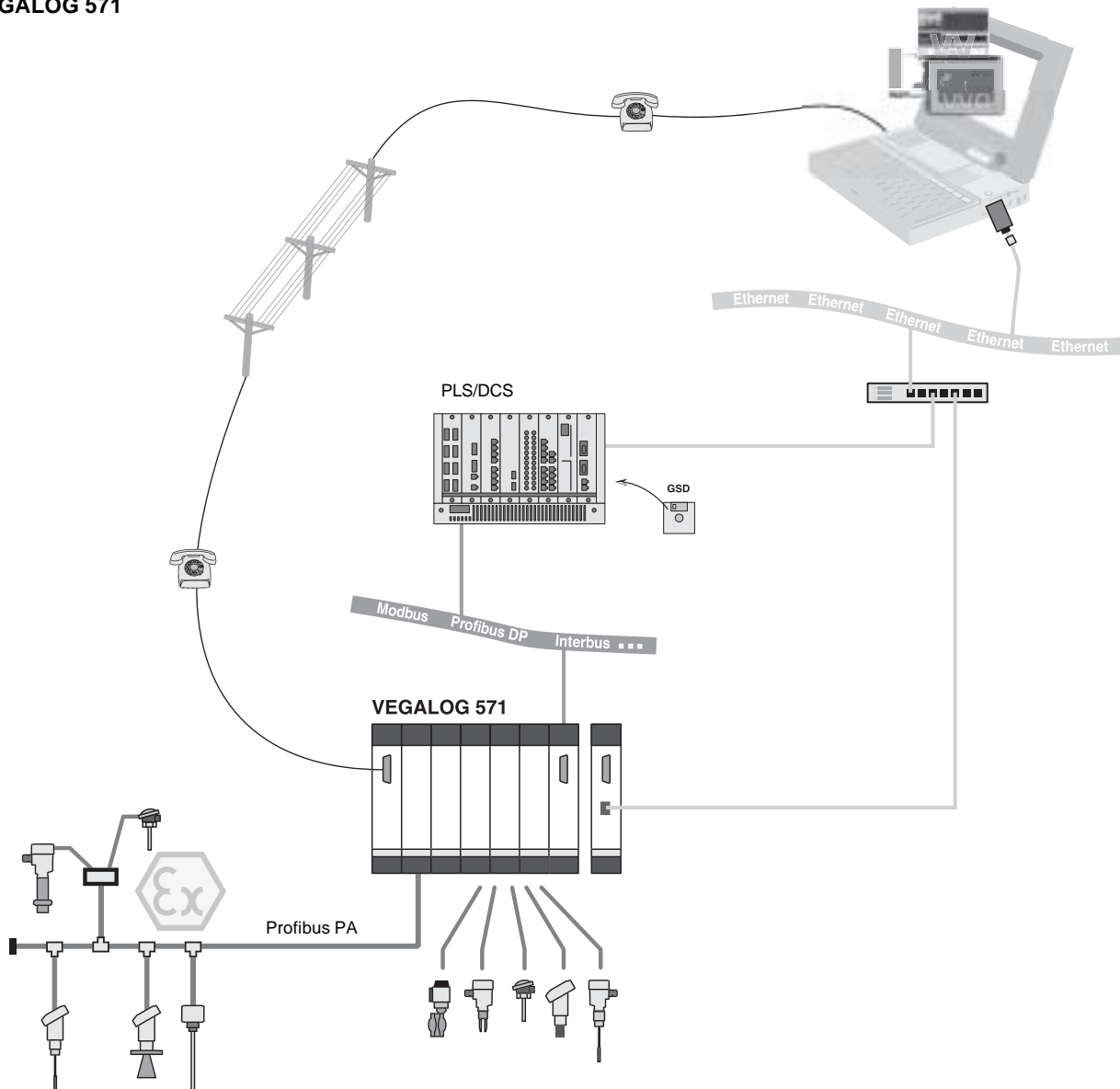


Plug-in socket

K inclusive socket



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 acc. 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

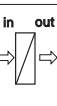
The setup and adjustment of the system is made via the RS 232 interface of the CPU or via Ethernet (VEGACOM 558 necessary) and a standard PC in conjunction with the menu-driven adjustment program »VEGA Visual Operating« (VVO).

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 system, card management, arithmetic functions

- 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 vessel geometries, selectable scaling, allocation of measuring units
- visualisation with Visual VEGA (VV) or Internet Explorer (VEGACOM 558)

Interfaces : RS 232 on the front
Operating voltage : 18...36 V DC

Approval

- XX** without
 - XM** Ship approval
 - XA** Overfill protection acc. to WHG
- Measurement loops**
- E** for max. 255 measurement loops



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

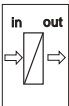
VEGALOG 571 EA-card

Input card for 4...20 mA sensors

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

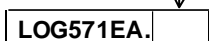
- for connection of max. 10 sensors with analogue signal transmission
- with transmitter power supply (active) in the range of 4...20 mA
- without transmitter power supply (passive) in the range of 0...20 mA
- active or passive also mixed

Operating voltage : 18...36 V DC



Approval

- XX** without
- XM** Ship approval
- XA** Overfill protection acc. to WHG



- 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 acc. 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 of 0...20 mA

For connection of actuators or indications

- connection of up to 10 field instruments

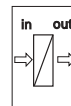
Operating voltage : 18...36 V DC
Outputs : 10 x 0...20 mA
Load : max. 750 Ohm

Approval

XX without
XM Ship approval
XA Overfill protection acc. 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
- multiple allocation per input of the relays possible
- configuration of the relays and indication of the switching condition via software

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

Approval

- XX** without
- XM** Ship approval
- XA** Overfill protection acc. to WHG



LOG571AR.

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

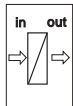
Operating voltage : 18...36 V DC
 Outputs : 10 transistor outputs
 (short-circuit proof)

Approval

- XX** without
- XM** Ship approval
- XA** Overfill protection acc. to WHG



LOG571AT.

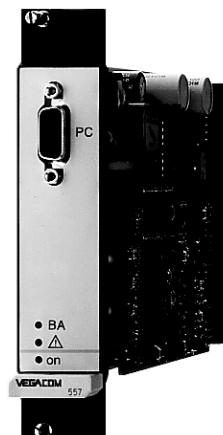


VEGACOM 557

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 RS 232-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 RS 232 interface

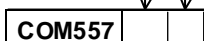


Meas. data input : for VEGALOG 571 and VEGAMET
 Interfaces : RS 485, RS 422, RS 232, TTY (depending on the communication protocol)
 : RS 232 C in the front
 Operating voltage : 20...53V AC, 20...72V DC

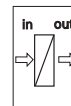


Approval

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



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

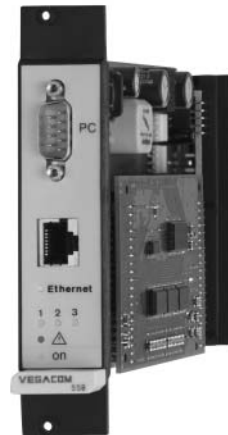


VEGACOM 558

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



Approval

without
Software protocol
 Ethernet TCP/IP

COM558 [] []

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

RS 232 connection cable

Connection cable between PC and VEGALOG 571 - CPU or VEGACOM 557/558
 9-pole socket - socket
 Length: 2 m

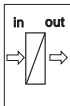
LOG571.17347

USB/RS 232 adapter cable

Special adapter cable for connection of a VEGACONNECT, VEGALOG 571 CPU, VEGACOM 557/558, VEGAMET 624/625, VEGASCAN 693 to the USB interface of a PC or notebook

Cable: length 0.35 m
 Operating system: Windows 98/2000/XP
 RS 232 plug: SUB-D 9-pole plug (male)
 USB plug: type A

Article no. 2.26900



ISDN-Terminal-Adapter

For connection of the analogue modem to the Euro-ISDN-network (S0-Bus).
 Approval for Germany

MODEM.IX

VEGACONNECT 3 (see chapter "Indication and adjustment")
 228 - AL-EN

Modem connection cable

Special cable for connection of modem and VEGACONNECT 3

Adaptation of the RS232 interface of a modem to VEGACONNECT

- especially for the remote parameter adjustment with the adjustment software PACTware/VVO

Cable : length 1.8 m with 2 x
SUB-D-9-pole plug
Add. adapter : 1 x 9 of 25-pole

MODEM.KX

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 / VVO.

- 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 acc. to EN 50022
 - RS 232 interface

Modem

- SX** Consumer modem/Office modem
- IX** Industrial modem RS232 for carrier rail mounting



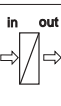
MODEM.

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

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, VVO or PACTware Approval for Europe



- 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: RS 232

MODEM.FX

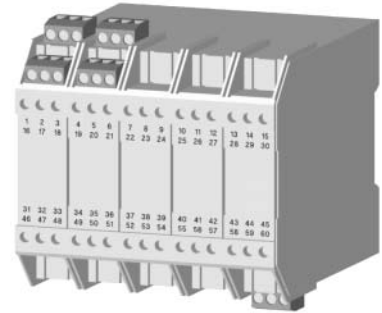
For operation on a USB interface, a USB/RS232 adapter cable (Article no. 2.26900) is available.

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 acc. to the FISCO model
- fastening on carrier rail 35 x 7.5 mm acc. to EN 50022 or wall mounting



Operating voltage Ex/non-Ex	: 20...35V DC/20...30V DC
Current consumption Ex/non-Ex	: 200...350 mA/460...680 mA
Housing width Ex/non-Ex	: 100 mm/80 mm
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

- Please ask for the segment coupler with 12 Mbit/s separately

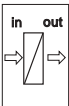
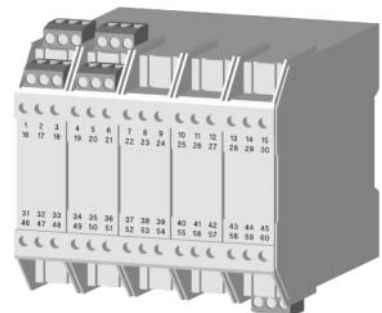
PA coupler SK-2

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 Ex/non-Ex	: 20...35V DC/20...30V DC
Current consumption Ex/non-Ex	: 200...350 mA/460...680 mA
Housing width Ex/non-Ex	: 100 mm/80 mm
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)
Rated power Profibus	
PA Ex/non-Ex	: 13V, 100 mA/24V, 400 mA



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 KLD2-PL-1.PA or KLD2-PL-EX1.PA.

- 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 acc. to EN 50022 or wall mounting



KLD2-GT-DP.1PA

Fielbus power supply [EEx ib] IIB

Repeater for FISCO Fieldbus circuits Profibus PA or Foundation Fieldbus

- at least 12 Ex field devices connectable on the IIB Fieldbus
- power supply and Ex-separation of the intrinsically safe FISCO-Fieldbus segment
- Repeater functionality for Fieldbus circuits acc. to IEC 61158-2 (FF and PB PA)
- ATEX II (2) GD [EEx ib] IIB
- mounting on carrier rail 35 x 7.5 mm acc. to EN 50022
- can be mounted in Ex-area zone 2

Operating voltage	: 19.2 - 30V DC
Current consumption IIB	: up to 495mA
Housing width	: 42mm
Bus FF/PB PA (IEC 61158-2)	: 31.25 kbit/s (fixed adjusted baud rate)
Nominal power (IEC 61158-2)	: 12.8V, 265mA (IIB)



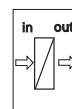
PS9122-IS.

Fielbus power supply [EEx ib] IIC

Repeater for FISCO Fieldbus circuits Profibus PA or Foundation Fieldbus

- at least 6 Ex Fieldbus devices connectable on IIC Fieldbus
- power supply and Ex-separation of the intrinsically safe FISCO-Fieldbus segment
- Repeater functionality for Fieldbus circuits acc. to IEC 61158-2 (FF and PB PA)
- ATEX II (2) GD [EEx ib] IIC
- mounting on carrier rail 35 x 7.5 mm acc. to EN 50022
- can be mounted in Ex-area zone 2

Operating voltage	: 19.2 - 30V DC
Current consumption IIC;	up to 330mA
Housing width	: 42mm
Bus FF/PB PA (IEC 61158-2)	: 31.25 kbit/s (fixed adjusted baud rate)
Nominal power (IEC 61158-2)	: 12V, 120mA (IIC)

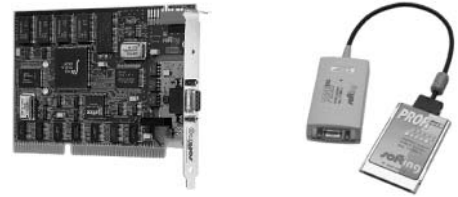


PS9121-IS.

Profibus accessory

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

↓

2

Profibus T-connector

Single and multiple distributor for PROFIBUS PA bus systems

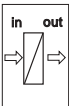
For professional coupling of PROFIBUS PA transmitters to the PROFIBUS PA bus cable



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



↓

2

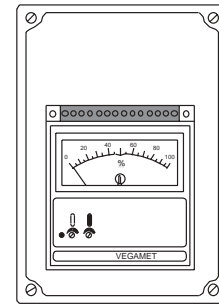
Housing IP 65 for series 300

Isolation protection housing with transparent cover for surface mounting

For one series 300 instrument

- inclusive carrier rail 35 x 7.5 acc. to EN 50022

Protection : IP65



ISO-GEH300.

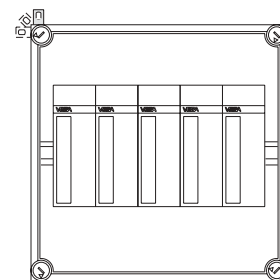
Housing for housing type 505

Isolation protection housing with transparent cover for surface mounting

For max. 5 housings type 505

- inclusive carrier rail 35 x 15 acc. to EN 50022

Protection : IP65



ISO-GEH500.

BGT 596

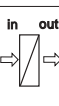
19" carrier for series 500 instruments

For mounting into 19" cabinets and housings

- inclusive 4 TE blind cover

Width : 84 TE

Height : 3 HE



Approval

.X without
EX.M ATEX + ship approval

BGT596

Module (33-pole)

for mounting into carrier BGT 596

suitable for series 500 instruments

- 1 multipoint connector DIN 41 612, series F, 33-pole (d, b, z) with coded pin
- 2 screws, 2 guide rails

Connection

- A. Wire-Wrap standard connection 1.0mm x 1.0mm
- B. Plug connection 2.8mm x 0.8mm
- C. Termi-Point connection 1.6mm x 0.8mm
- D. Soldering connection
- E. Screw terminals 0.5mm²



STECKPLATZ-33

Module Ex (33-pole)

for mounting into carrier BGT 596

suitable for series 500 Ex instruments

- 1 multipoint connector DIN 41 612, 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 1.0mm x 1.0mm
- B. Plug connection 2.8mm x 0.8mm
- D. Soldering connection
- E. Screw terminals 0.5mm²



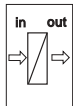
STECKPLATZ-EX-33

- 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 acc. 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

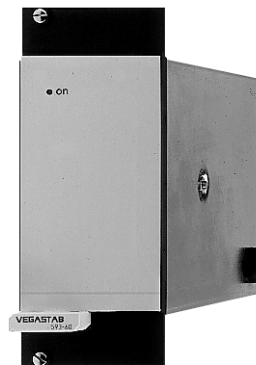
GEH505

VEGASTAB 593-60

Power supply unit in 19" European size

Voltage supply for series 500 instruments

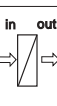
- Module (inclusive) : plug 6.3 mm
- Output : multiple plug series H, 15-pole
- Output : 24V DC, 45 W



Approval

- .X without
 - .M Ship approval
- Operating voltage**
- B 115VAC
 - A 230VAC
- Module**
- B Plug 6.3mm

STAB593-60

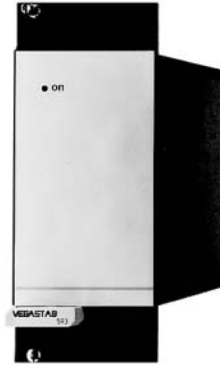


VEGASTAB 593

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

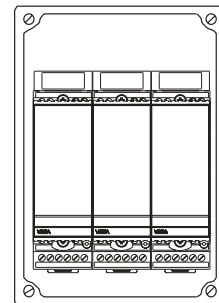
Housing IP 65 for series 600

Isolation protection housing with transparent cover for surface mounting

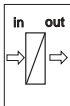
For max. 3 series 600 instruments with 36 mm width or 1 instrument with 72 mm width

- inclusive carrier rail 35 x 7.5 acc. to EN 50022

Protection : IP65



ISO-GEH600.



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 571 EP 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 1.0mm x 1.0mm
- B. Plug connection 2.8mm x 0.8mm
- C. Termi-Point connection 1.6mm x 0.8mm
- D. Soldering connection
- E. Screw terminals 0.5mm²



STECKPLATZ-48

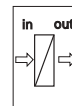
- Blind cover with fixing screws see Accessory in this chapter
- Note: Ex module for VEGALOG 571 EP-Ex card see Accessory in this chapter

19"plug-in ventilator SK 3141

for mounting in 19" cabinets and housings

consisting of 3 ventilators in Aluminium cassette

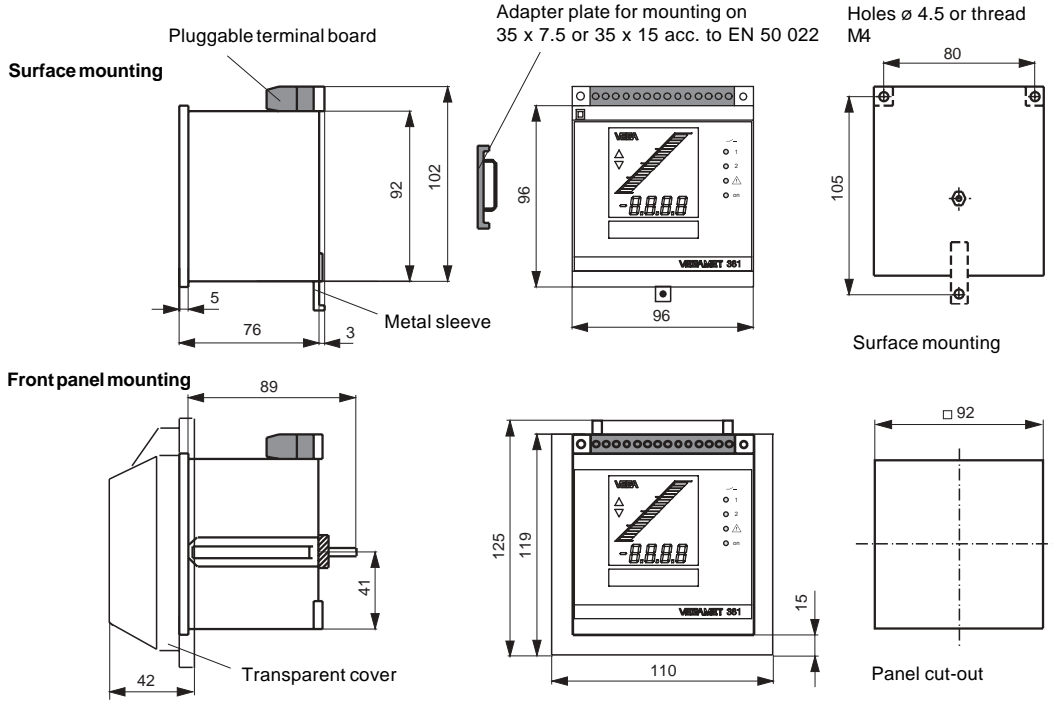
Width: 84 TE
Height: 1 HE
Air output per ventilator: 160 m³/h
Rotary frequency: 2650/3100 min⁻¹
Noise level: 46 dB (A)
max. static pressure: 78.5 Pa
Operating voltage: 220 V AC (50 Hz), 230 V AC (60 Hz), 54 W



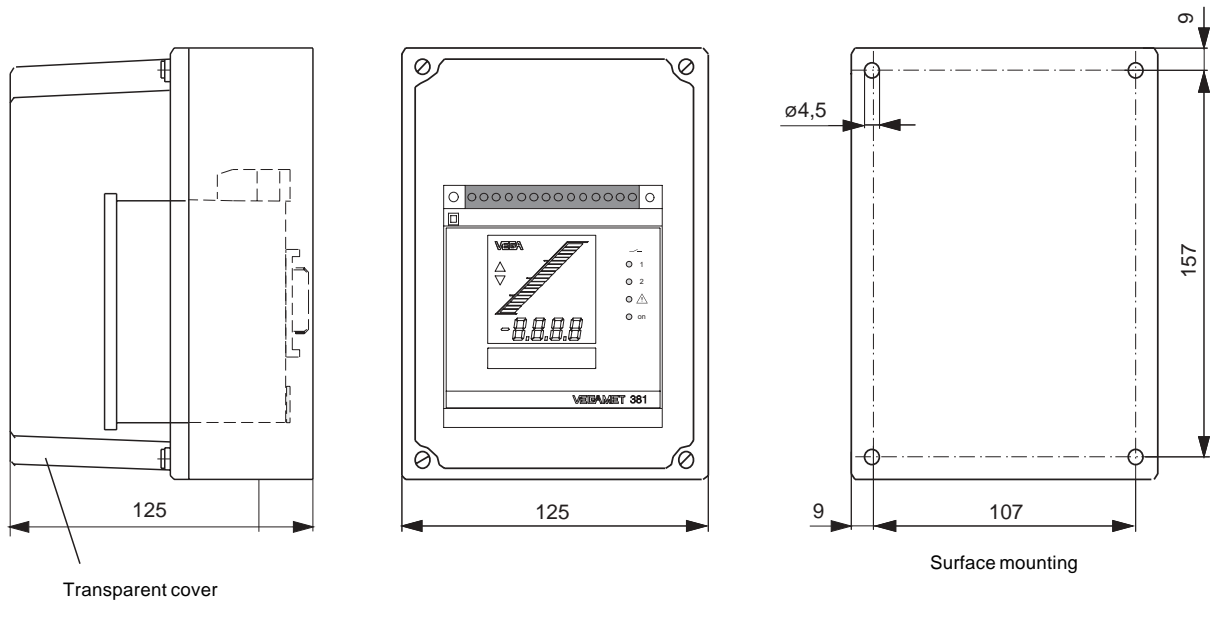
19" plug-in ventilator SK 3141

Article no. 2.21435

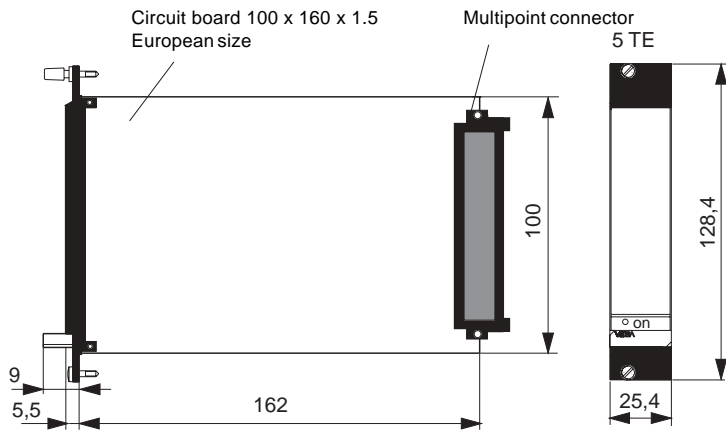
Series 300



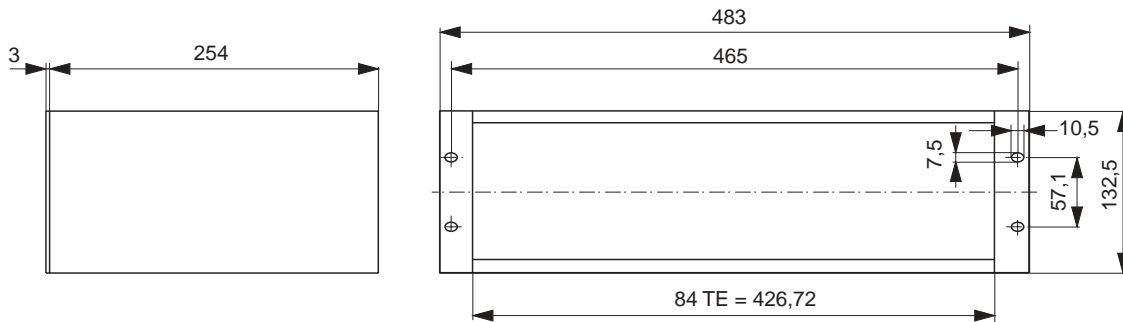
Iso housing IP 65 for series 300



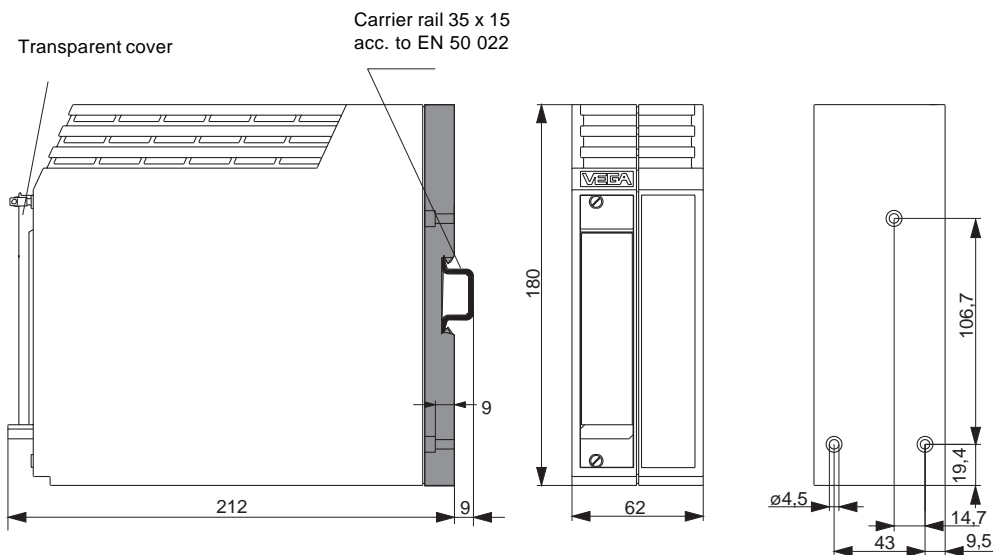
Series 500



Carrier BGT 596, BGT 596 Ex, BGT LOG 571

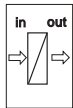
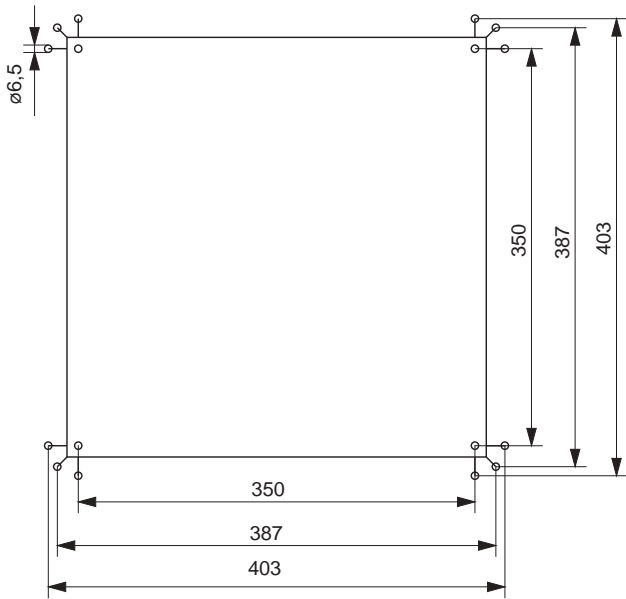
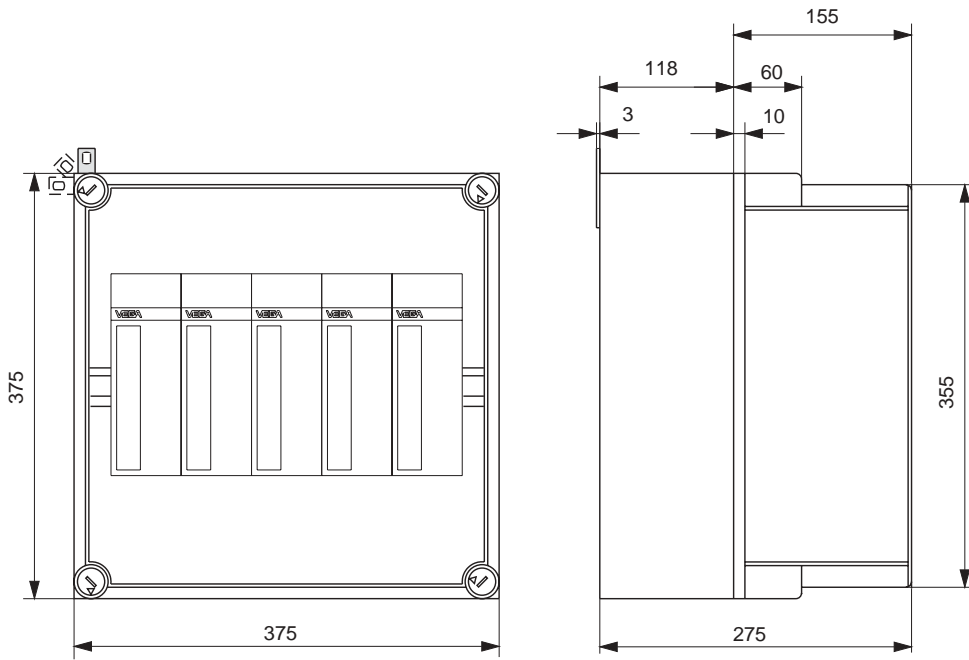


Housing type 505

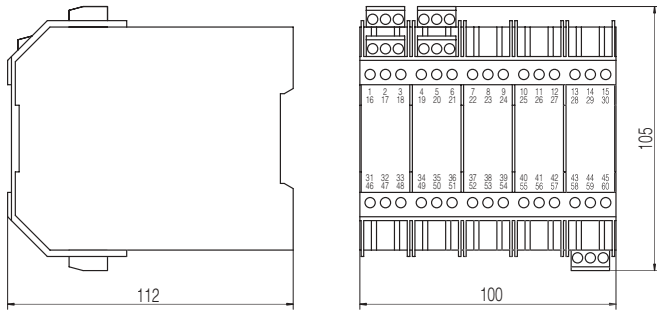


- For series 500 signal conditioning instruments with 33-pole multipoint connector

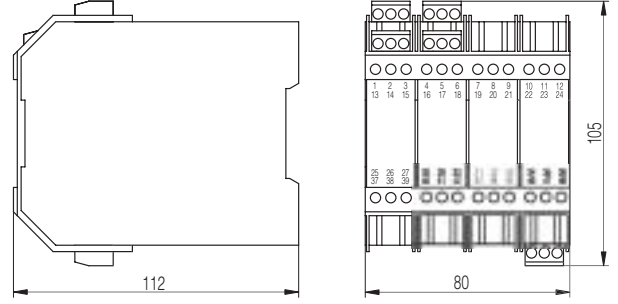
Iso housing IP 65 for housing type 505



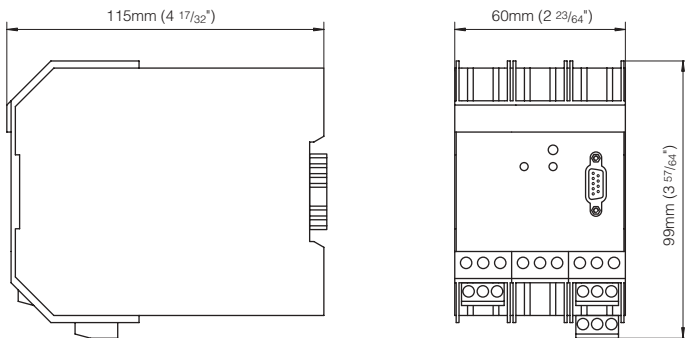
**Profibus DP/PA segment coupler Ex
Profibus PA power supply module SK2 Ex**



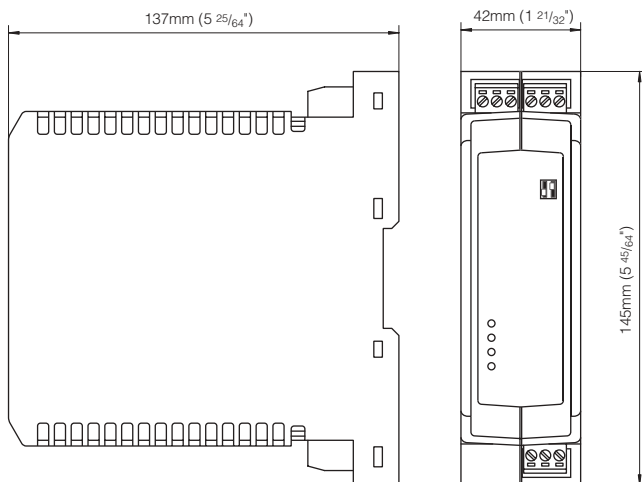
**Profibus DP/PA segment coupler
Profibus PA power supply module SK2**



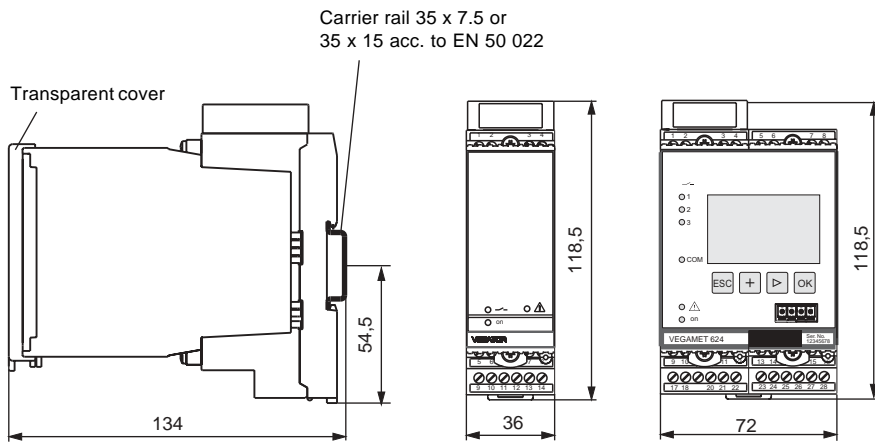
Profibus PA segment coupler SK2 Gateway



Fieldbus power supply



Series 600



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

