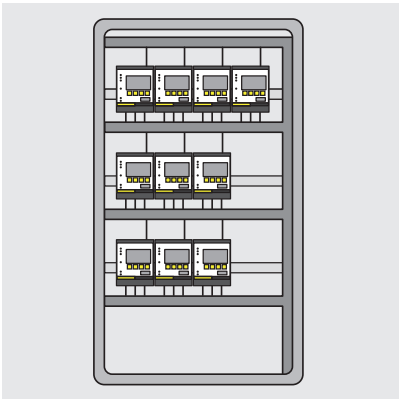
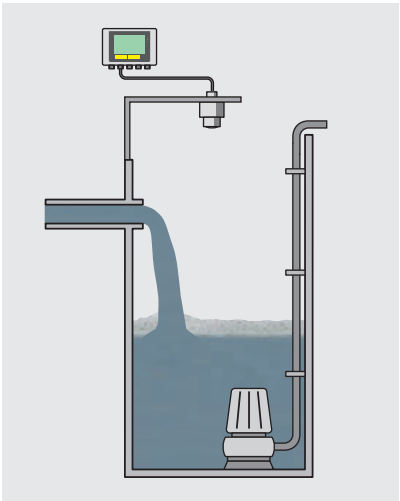
Controllers





Area of application

Together with connected sensors, controllers enable a variety of measuring tasks, such as e.g. level, gauge, differential pressure, process pressure, distance, interface and temperature measurement.

Principle of operation

Sensors detect physical values in a vessel and forward them to the controller. Through an adjustment in the controller, the readings can be adapted to the specific conditions of the measuring point. They appear on its display and can be retransmitted via the integrated current outputs connected to field mounted indicators or higher-level control systems. In addition, point level signals can be used to control pumps or other actuators via integrated relays.

Advantages

Versatile use through scalable outputs. Simple integration into higher-level systems. Easy installation via mounting rails. Cost savings through integrated sensor supply, even in explosion protected areas.

	VEGAMET 841/842	VEGAMET 861/862
		
Application	Measured value display, point level alarms, pump control, flow measurement in open channels	Measured value display, point level alarms, pump control, flow measurement in open channels, data logger
Input	VEGAMET 841: 1x 4 … 20 mA sensor input VEGAMET 842: 2x 4 … 20 mA sensor input	VEGAMET 861: 1x 4 … 20 mA/HART sensor input 2x digital input VEGAMET 862: 2x 4 … 20 mA/HART sensor input 4x digital input
Hysteresis	Adjustable	Adjustable
Output	1/2x 0/4 … 20 mA current output 3x operating relay 1x fail safe relay (instead of an operating relay)	1/3x 0/4 … 20 mA current output 4/6x operating relay 1x fail safe relay (instead of an operating relay)
Operating voltage	24 ... 65 V DC 100 ... 230 V AC, 50/60Hz	24 ... 65 V DC 100 ... 230 V AC, 50/60Hz
Mounting	Wall/pipe mounting in the field	Wall/pipe mounting in the field
Display	LCD matrix display, black and white backlight with colour change according to status	LCD matrix display, black and white backlight with colour change according to status
Adjustment	On-site adjustment with 4 keys, smartphone/tablet/PC via Bluetooth	On-site adjustment with 4 keys, smartphone/tablet/PC via Bluetooth
Approvals	ATEX, IEC, cULus, NEPSI, EAC, INMETRO, TIIS, KOSHA/KTL, SEPRO, CCOE, IA, WHG	ATEX, IEC, cULus, NEPSI, EAC, INMETRO, TIIS, KOSHA/KTL, SEPRO, CCOE, IA, WHG
Benefit	▪ Clear, easy-to-read (at distance), user-programmable display ▪ Fast setup thanks to simple intuitive menu navigation and application wizards ▪ Secure, user-friendly wireless operation via Bluetooth with smartphone, tablet or PC	▪ Clear, easy-to-read (at distance), user-programmable display ▪ Fast setup thanks to simple intuitive menu navigation and application wizards ▪ Secure, user-friendly wireless operation via Bluetooth with smartphone, tablet or PC

Controllers

	VEGAMET 381	VEGAMET 391
		
Application	Measured value indication and simple control functions	Measured value indication and simple control functions, remote enquiry of measured values
Input	1x 4 … 20 mA sensor input	1x 4 … 20 mA/HART sensor input
Hysteresis	Adjustable	Adjustable
Output	1x 0/4 … 20 mA current output 2x operating relay 1x fail safe relay	1x 0/4 … 20 mA current output 6x operating relay or 5x operating relay and 1x fail safe relay 1x Ethernet (optional) 1x RS232 (optional)
Operating voltage	24 ... 65 V DC 100 ... 230 V AC, 50/60Hz	24 ... 65 V DC 100 ... 230 V AC, 50/60Hz
Mounting	Front panel or wall mounting Carrier rail 35 x 7.5 acc. to EN 50022	Front panel or wall mounting Carrier rail 35 x 7.5 acc. to EN 50022
Display	Large digital and quasi-analogue indication	Graphic-capable clear text indication with background lighting
Approvals	ATEX, IEC, EAC (GOST), UKR Sepro, SIL2	ATEX, IEC, FM, CSA, EAC (GOST), UKR Sepro, SIL2
Benefit	▪ Simple connection of sensor thanks to integrated power supply ▪ Excellent visibility via large display	

	VEGAMET 624	VEGAMET 625	VEGASCAN 693
			
Application	Measured value indication, simple control functions as well as remote enquiry of measured values for one 4 ... 20 mA/HART sensor	Measured value indication, simple control functions as well as remote enquiry of measured values for two HART sensors	Measured value indication and remote enquiry of measured value for up to 15 HART sensors
Input	1x 4 … 20 mA/HART sensor input	2x HART sensor input	15x HART sensor input
Hysteresis	Adjustable	Adjustable	–
Output	3x 0/4 … 20 mA current output 3x operating relay 1x fail safe relay 1x Ethernet (optional) 1x RS232 (optional)	3x 0/4 … 20 mA current output 3x operating relay 1x fail safe relay 1x Ethernet (optional) 1x RS232 (optional)	1x fail safe relay 1x Ethernet (optional) or 1x RS232 (optional)
Operating voltage	24 ... 65 V DC 100 ... 230 V AC, 50/60Hz	24 ... 65 V DC 100 ... 230 V AC, 50/60Hz	24 ... 65 V DC 100 ... 230 V AC, 50/60Hz
Mounting	Carrier rail 35 x 7.5 acc. to EN 50022	Carrier rail 35 x 7.5 acc. to EN 50022	Carrier rail 35 x 7.5 acc. to EN 50022
Display	Graphic-capable clear text indication with background lighting	Graphic-capable clear text indication with background lighting	Graphic-capable clear text indication with background lighting
Approvals	ATEX, IEC, FM, CSA, EAC (GOST), UKR Sepro, Ship	ATEX, IEC, FM, CSA, EAC (GOST), UKR Sepro, Ship	ATEX, IEC, FM, CSA, EAC (GOST), UKR Sepro, Ship
Benefit	▪ Simple connection of sensor thanks to integrated power supply ▪ Versatile use through relay and current outputs as well as integrated web server ▪ Excellent visibility via large display		

Controllers

	VEGATOR 111/112	VEGATOR 121/122
		
Application	Transmission of NAMUR signals for level signalling	Transmission of 8/16 mA signals for level signalling
Input	VEGATOR 111: single channel VEGATOR 112: double channel	VEGATOR 121: single channel VEGATOR 122: double channel
Hysteresis	Fix	Fix
Output	VEGATOR 111: 1x operating relay (SPDT), optional 1x fail safe relay (SPDT) VEGATOR 112: 2x operating relay (SPDT)	VEGATOR 121: 1x operating relay (SPDT), optional 1x fail safe or operating relay (SPDT) VEGATOR 122: 2x operating relay (SPDT)
Operating voltage	24 … 65 V DC 24 … 230 V AC, 50/60 Hz	24 … 65 V DC 24 … 230 V AC, 50/60 Hz
Mounting	Carrier rail 35 x 7.5 acc. to EN 50022	Carrier rail 35 x 7.5 acc. to EN 50022
Display	1x LED voltage supply 1x LED switching signal per channel 1x LED false signal per channel	1x LED voltage supply 1x LED switching signal per channel 1x LED false signal per channel
Approvals	ATEX, IEC, EAC (GOST), Overfill protection, Ship, SIL2, UL	ATEX, IEC, EAC (GOST), Overfill protection, Ship, SIL2, UL
Benefit	▪ Rapid implementation of simple control and regulatory functions ▪ Increased operational reliability through line monitoring and test button ▪ Easy installation via carrier rail	

	VEGATOR 131/132	VEGATOR 141/142
		
Application	Controller for conductive probes	Controller for 4 … 20 mA signals for level detection
Input	VEGATOR 131: single channel VEGATOR 132: double channel	VEGATOR 141: single channel VEGATOR 142: double channel
Hysteresis	Adjustable (max. 200 kOhm)	Adjustable
Output	VEGATOR 131: 1x operating relay, optional 1x fail safe relay output (SPDT) VEGATOR 132: 2x operating relay (SPDT)	VEGATOR 141: 1x operating relay (SPDT), optional 1x fail safe relay output (SPDT) VEGATOR 142: 2x operating relay (SPDT)
Operating voltage	24 … 65 V DC 24 … 230 V AC, 50/60 Hz	24 … 65 V DC 24 … 230 V AC, 50/60 Hz
Mounting	Carrier rail 35 x 7.5 acc. to EN 50022	Carrier rail 35 x 7.5 acc. to EN 50022
Display	1x LED voltage supply 1x LED switching signal per channel 1x LED false signal per channel	1x LED voltage supply 1x LED switching signal per channel 1x LED false signal per channel
Approvals	ATEX, IEC, Overfill protection	ATEX, IEC, EAC (GOST), Overfill protection, Ship, SIL2, UL
Benefit	▪ Rapid implementation of simple control and regulatory functions ▪ Increased operational reliability through line monitoring ▪ Easy installation via carrier rail	