Software and display instruments

Area of application

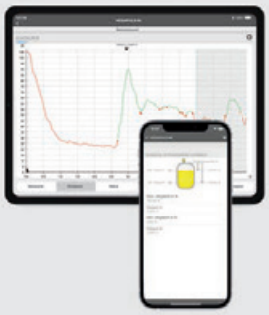
Calibration of sensors and visualization of measured values via on-site display units. The visualization and monitoring of measured values can also be carried out via the web-based VEGA Inventory System.

Systems

Any sensor can be completely configured with the adjustment software PACTware or the VEGA Tools app. Alternatively, the adjustment module PLICSCOM can be used to configure a sensor directly on site. The web-based visualization software VEGA Inventory System collects readings from sensors connected anywhere in the world and displays them in a clear, well-organized layout.

Advantages

Depending on the requirements, the user can set up the sensors either on site or comfortably via laptop, tablet or smartphone. Additional display units can be connected in the measurement loop to display the readings at other locations. It is also very easy to set up a visualization system that allows the readings to be displayed worldwide via a standard browser.

	DTM Collection	VEGA Inventory System	VEGA Tools app
			
Application	Adjustment software for configuration, parameter adjustment, documentation and diagnosis for field devices	System for inventory monitoring as well as remote enquiry and visualization of measurement and location data	App for wireless configuration, parameter adjustment and diagnosis of field devices
Recommended operating systems	Windows 8 (32 or 64 Bit) Windows 10 (32 or 64 Bit)	▪ VEGA Hosting Service: independent of operating system ▪ Local server: MS Windows Server 2012 or higher as well as MS SQL Server 2012 or higher	from iOS 8 from Android 5.1
Adjustment	Via computer	With standard web browser	With smartphone With tablet
Versions	▪ Standard version ▪ Full version	▪ VEGA Hosting Service (VH) ▪ Local server (LS)	–
Technology	FDT/DTM	Web-based	Bluetooth/App
Benefit	▪ User-friendly, standardized adjustment program for the PC ▪ Extremely user friendly thanks to graphical user interface, project storage and documentation ▪ Extended functional range as full version with additional features such as multiviewer, tank calculation, echo curve storage and advanced diagnostics	▪ Simple centralized inventory monitoring and management ▪ More transparency through connected assets and facilities ▪ Avoidance of production stoppages through increased supply security ▪ Reduction of transport costs through optimized replenishment planning	▪ Simple, intuitive and unique adjustment for all plics® sensors as well as sensors with integrated Bluetooth ▪ Can be used for instruments as from 2002 through retrofitting of PLICSCOM with Bluetooth, without software update of the sensor ▪ Secure connection through authentication and encrypted commnunication

Software and display instruments

	VEGACONNECT	PLICSCOM	PLICSLED
Application	Interface adapter between PC and VEGA instruments	Measured value indication and adjustment on plics® sensors	Switching status indication directly on the sensor
Sensors	All communication-capable VEGA sensors	All plics® sensors	All plics® sensors with relay output
Mounting	Directly in the sensor or in the junction box	Directly in the sensor or in VEGADIS 81, 82	Directly in the sensor
Ambient temperature	-20 … +60 °C	-20 … +70 °C	-40 … +80 °C
Signal	Standard interface or HART on the VEGA instrument, USB interface on the PC, on Fieldbus and Modbus sensors	Standard interface on the sensor Bluetooth (optional) Magnetic pen adjustment (optional)	–
Lighting	–	Integrated	Red-green or yellow-green
Protection	IP40	IP66/IP67 in the sensor	IP66/IP67 in the sensor
Voltage supply	Via USB interface on the PC	Via standard interface on the sensor	20 … 253 V AC/DC, 50/60 Hz
Voltage loss	–	–	–
Approvals	ATEX, EAC (GOST), UKR Sepro	–	–
Benefit	▪ Universally applicable, because compatible with all communication-capable VEGA instruments ▪ Simple connection via supplied adapter	▪ Good readability through graphics-capable LCD display and built-in lighting ▪ Simple and reliable handling via 4-button operation and intuitive menu structure with plain text display ▪ Universally applicable, because compatible with all plics® sensors, independent of the measuring principle	▪ Clearly visible switching status display, even in bright daylight ▪ Minimal installation time, as no external wiring is required ▪ Universally applicable ▪ High protection category via integrated module in plics® sensor housing

	VEGADIS 81	VEGADIS 82	VEGADIS 176
	External measured value indication and adjustment of plics® sensors	External measured value indication and adjustment of 4 ... 20 mA/HART sensors	Switching cabinet measured value indication of 4 … 20 mA/HART sensors
	All plics® sensors	4 … 20 mA/HART sensors	4 … 20 mA/HART sensors
	Tube, wall mounting or carrier rail	Tube, panel, wall mounting or carrier rail	Panel mounting
	-20 … +70 °C	-20 … +70 °C	-10 … +60 °C
	Standard interface Bluetooth Magnetic pen adjustment	4 … 20 mA 4 … 20 mA/HART	4 … 20 mA 4 … 20 mA/HART
	Integrated	Integrated	Integrated
	IP66/IP67	IP66/IP67	IP65 front, IP20 rear
	Via standard interface on sensor	Via 4 … 20 mA current loop	Via 4 … 20 mA current loop
	–	Standard < 1.7 V, with lighting < 3.2 V	Standard < 1 V, with lighting < 2.9 V
	ATEX, IEC, FM, CSA, EAC (GOST), UKR Sepro, NEPSI, INMETRO, KOSHA	ATEX, IEC, FM, CSA, EAC (GOST), UKR Sepro, NEPSI, INMETRO, KOSHA	ATEX, IEC, FM, CSA
	▪ Measured value display and sensor operation at easily accessible locations (up to 50 m away from the sensor) ▪ Good readability and simple adjustment via integrated PLICSCOM ▪ Universally applicable, because compatible with all plics® sensors, independent of the measuring principle	▪ Measured value display and sensor operation at easily accessible locations (up to 1500 m away from the sensor) ▪ Good readability and simple adjustment via integrated PLICSCOM ▪ Universally applicable thanks to compatibility with all 4 ... 20 mA sensors and integrated adjustment functions for VEGAPULS WL 61 and VEGAWELL 52	▪ Convenient measured value display in accessible places (up to 1500 m away from the sensor) ▪ Excellent visibility via large display ▪ Universally applicable thanks to freely scalable display range