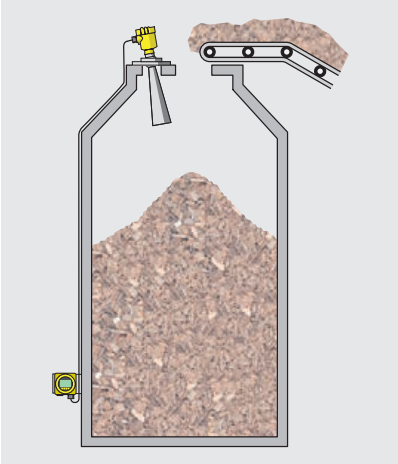
# Software and display instruments

## 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 Toolsapp |
|---|---|---|---|
| |  |  |  |
| **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 measured values | App for wireless configuration, parameter adjustment and diagnosis of field devices |
| **Recommended operating systems** | Windows 7 (32 or 64 Bit)<br>Windows 8 (32 or 64 Bit)<br>Windows 10 (32 or 64 Bit) | ▪ VEGA Hosting Service: independent of operating system<br>▪ Local Server: MS Windows Server 2012 or higher as well as MS SQL Server 2012 or higher | from iOS 8<br>from Android 4.3 |
| **Adjustment** | Via computer | With standard web browser | With smartphone<br>With tablet |
| **Versions** | ▪ Standard version<br>▪ Full version | ▪ VEGA Hosting Service (VH)<br>▪ Local Server (LS) | – |
| **Technology** | FDT/DTM | Web-based | Bluetooth/App |
| **Benefit** | ▪ User-friendly, standardized adjustment program for the PC<br>▪ Extremely user friendly thanks to graphical user interface, project storage and documentation<br>▪ Extended functional range as full version with additional features such as multiviewer, tank calculation, echo curve storage and advanced diagnostics | ▪ Easier centralized inventory monitoring and management<br>▪ Avoidance of production stoppages through increased supply security<br>▪ Reduction of transport costs through optimized replenishment planning<br>▪ More transparency through connection to the digital supply chain | ▪ Simple, intuitive and unique adjustment for all plics® sensors as well as sensors with integrated Bluetooth<br>▪ Can be used for instruments as from 2002 through retrofitting of PLICSCOM with Bluetooth, without software update of the sensor<br>▪ Secure connection through authentication and encrypted commnunication |

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| | 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 handheld | 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<br>Bluetooth (optional)<br>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<br>▪ Simple connection via supplied adapter | ▪ Good readability through graphics-capable LCD display and built-in lighting<br>▪ Simple and reliable handling via 4-button operation and intuitive menu structure with plain text display<br>▪ Universally applicable, because compatible with all plics® sensors, independent of the measuring principle | ▪ Clearly visible switching status display, even in bright daylight<br>▪ Minimal installation time, as no external wiring is required<br>▪ Universally applicable<br>▪ 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<br>Bluetooth<br>Magnetic pen adjustment | 4 … 20 mA<br>4 … 20 mA/HART | 4 … 20 mA<br>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,<br>with lighting < 3.2 V | Standard < 1 V,<br>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)<br>▪ Good readability and simple adjustment via integrated PLICSCOM<br>▪ 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)<br>▪ Good readability and simple adjustment via integrated PLICSCOM<br>▪ 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)<br>▪ Excellent visibility via large display<br>▪ Universally applicable thanks to freely scalable display range |