Product information

Indication and adjustment

Display and adjustment instruments

XCOM
PLICSCOM
VEGADIS 81, 82, 176
PLICSLED

Document ID: 30143

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Take note of safety instructions for Ex applications

Please note the Ex specific safety information which you can find on our homepage **www.vega.com/downloads** under "*Approvals*" and which comes with every instrument. In hazardous areas you should take note of the corresponding regulations, conformity and type approval certificates of the sensors and power supply units. The sensors must only be operated on intrinsically safe circuits. The permissible electrical values are stated in the certificate.

30143-EN-260505

1 Type overview

1.1 Display and adjustment on the instrument

XCOM B

XCOM S

Functional designation	Communication module	Display and communication module
Installation possibility	In the housing of: VEGASWING X	In the housing of: VEGASWING X
Display on the instrument	-	Status indicator with adjustable colour settings
Adjustment on the device	-	-
Mounting	Pluggable	Pluggable
Connection	Without wiring	Without wiring
Bluetooth communication	Function included Can be switched on/off Adjustable range Range up to 100 m (328 ft)	Function optional Can be switched on/off Adjustable range Range up to 100 m (328 ft)
Ambient temperature	-40 … +80 °C (-40 … +176 °F)	-40 … +80 °C (-40 … +176 °F)
Protection rating	IP40 (unassembled) IP40 (built-in)	IP40 (unassembled) IP40 (built-in)
Approvals[1)]	ATEX, IEC, FM, CSA and further in preparation	

PLICSLED

PLICSCOM

Functional designation	Switching status indication module	Display and adjustment module
Installation possibility	In the housing of: plics® level sensors	In the housing of: plics® sensors VEGADIS 81 VEGADIS 82
Display on the instrument	LED with colour change green/red and green/yellow	Clear text indication with backlight
Adjustment on the device	-	4 key adjustment Magnetic pen optional
Mounting	Pluggable	Pluggable
Connection	Operating voltage switched via relay contact	Without wiring
Bluetooth communication	-	Function optional Can be switched on/off Fixed range Range up to 50 m (164 ft)
Ambient temperature	-40 … +80 °C (-40 … +176 °F)	-20 … +70 °C (-4 … +158 °F)
Protection rating	According to the sensor	IP20 (unassembled) IP40 (built-in)
Approvals	-	According to the sensor or VEGADIS 81

[1)] Further approvals under www.vega.com.

1.2 Remote display and adjustment

VEGADIS 81

Functional designation	External display and adjustment unit
Suitable sensors	plics® sensors
Display on the instrument	Via PLICSCOM: Clear text indication with backlight
Adjustment	PLICSCOM VEGA Tools app PACTware with DTM
Mounting	Wall, rail, tube mounting
Connection	On the sensor, wired
Cable length max.	50 m (164.0 ft)
Bluetooth communication	Via PLICSCOM
USB communication	VEGACONNECT
Ambient temperature	With PLICSCOM: -20 … +70 °C (-4 … +158 °F) With PLICSCOM: -40 … +80 °C (-40 … +176 °F)
Protection rating	IP66/IP67, IP66/IP68 (0.2 bar)
Approvals[2)]	ATEX, IEC, FM, CSA, OL, EAC (GOST), UKR SEPRO, INMETRO, KOSHA, NEPSI, CCOE, CCC, ship approval

1.3 Display and adjustment via signal cable

VEGADIS 82

VEGADIS 176

Functional designation	External display and adjustment unit	External display and adjustment display
Installation possibilities	4 … 20 mA sensors (active or passive)	4 … 20 mA sensors (active or passive)
Display on the instrument	Via PLICSCOM: Clear text indication with backlight	Large digital indication
Adjustment	PLICSCOM VEGA Tools app PACTware with DTM	3 key adjustment
Mounting	Wall, rail, tube mounting Panel mounting (only plastic housing)	Front panel mounting
Connection	In signal cable (sensor)	In signal cable (sensor)
Cable length max.	1500 m (4921.3 ft)	1500 m (4921.3 ft)
Bluetooth communication	Via PLICSCOM	-
USB communication	VEGACONNECT	-
Ambient temperature	-20 … +70 °C (-4 … +158 °F)	-25 … +60 °C (-13 … +140 °F)
Protection rating	IP66/IP67, IP66/IP68 (0.2 bar)	IP65 front side, IP20 rear side
Approvals[3)]	ATEX, IEC, FM, CSA, OL, EAC (GOST), INMETRO, CCC, ship approval	ATEX, IEC, EAC (GOST)

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2 Application examples

Display and adjustment on the instrument

The device is inserted into the sensor housing, allowing display and adjustment directly on the device or at the measuring point.

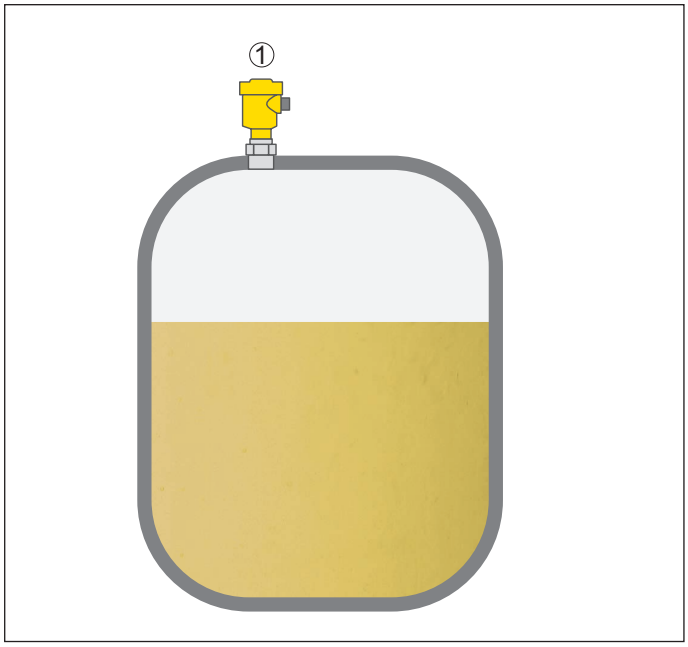


Fig. 1: Display and adjustment on the device (example)

1 Sensor with XCOM, PLICSCOM or PLICSLED

XCOM

The plug-in XCOM module is inserted into the device housing and is used for status display and adjustment. Adjustment and diagnostics are possible via Bluetooth.

Advantages - XCOM

- Status indicator with adjustable colour settings
- Optional adjustment via Bluetooth with smartphone/tablet/PC
- Easy detachability allows use in other devices in the product family

PLICSCOM

The pluggable PLICSCOM is inserted into the instrument housing and is used for measured value display, adjustment and diagnosis for all sensors of the VEGA plics® family:

- VEGABAR 50/60/80 series
- VEGADIF 65, 85
- VEGACAL series 60
- VEGAFLEX 60/80 series
- VEGAPULS 6X
- VEGAPULS series 60
- VEGASON series 60
- PROTRAC
- VEGADIS 81, 82

Advantages - PLICSCOM

- Graphic-capable LC display with simple 4 key adjustment as well as integrated lighting
- Clear text indication with graphical support
- Since it is easy to detach, it can also be used in other plics® sensors
- Optional adjustment via Bluetooth with smartphone/tablet/PC
- Optional magnetic pen adjustment through closed housing cover with inspection window

PLICSLED

The pluggable switching status indication module is mounting in the instrument housing and is suitable for all sensors of the VEGA plics® family with relay output:

- VEGASWING series 60
- VEGAVIB series 60
- VEGAWAVE series 60
- VEGACAP series 60
- VEGAMIP series 60

Advantages - PLICSLED

- Easy installation, as no external wiring is required
- Clearly readable switching status indication even with strong daylight
- High protection rating because the module is integrated in the plics® sensor housing
- Universal use

Remote display and adjustment

The VEGADIS 81 is mounted in the measuring point environment at a distance of up to 50 m from the sensor in an easily accessible position, so that the display and adjustment are remote from the sensor or measuring point. It is connected directly to the sensor electronics, from which it is powered.

The VEGADIS 81 is compatible with all sensors in the plics® family.

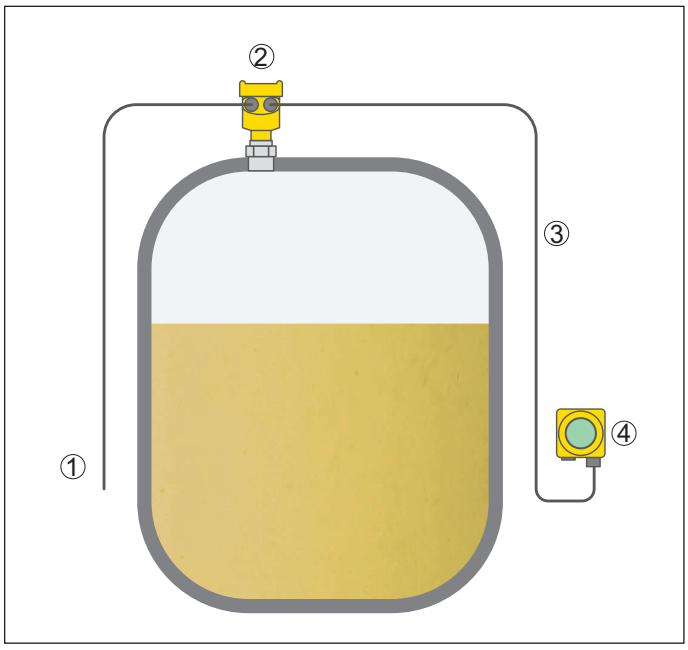


Fig. 2: Display and adjustment remote (example)

1 Voltage supply/Signal output sensor
2 Sensor
3 Connection cable sensor - VEGADIS
4 VEGADIS 81 with PLICSCOM

Advantages

- Measured value indication and sensor adjustment in easily accessible position
- Additional functions depending on the PLICSCOM used:

Display and adjustment via signal cable

The VEGADIS 82 or VEGADIS 176 is looped in directly into the signal line to the sensor at any point. All 4 … 20 mA sensors or 4 … 20 mA/HART sensors can generally be connected via the signal cable, regardless of the product family.

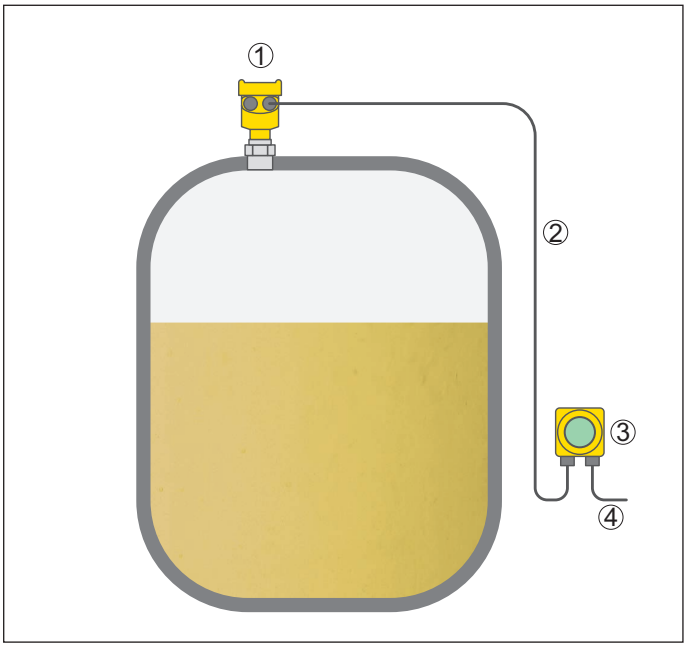


Fig. 3: Display and adjustment via signal cable (on the example with VEGADIS 82)

1 Sensor
2 Connection cable sensor
3 VEGADIS 82 with PLICSCOM
4 Voltage supply/Signal output sensor

Advantages - VEGADIS 82

- Measured value indication and sensor adjustment in easily accessible place
- Parameter adjustment with PLICSCOM and optional Bluetooth connection with smartphone/tablet/PC
- Optional adjustment via USB with interface adapter VEGACONNECT
- Universal use through HART standard parameters

Advantages - VEGADIS 176

- For panel mounting, without voltage supply
- Five-digit, backlit, scalable 17 mm display
- Compact, robust housing with high protection class in the front area

3 Accessories

Carrier rail adapter
A carrier rail adapter is required for carrier rail mounting of VEGADIS housings made of aluminium and stainless steel.

The mounting accessories consist of an adapter plate and four mounting screws M6 x 12.

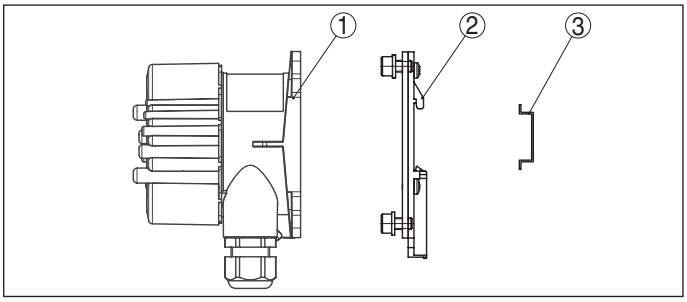


Fig. 4: Carrier rail adapter

1 VEGADIS
2 Carrier rail adapter
3 Carrier rail

Pipe mounting set
The pipe mounting set is used to attach a VEGADIS to a pipe, such as a railing or structural component. The mounting set is suitable for pipe diameters between 29 … 60 mm.

The set consists of two pairs of mounting clips and four mounting screws M6 x 100.

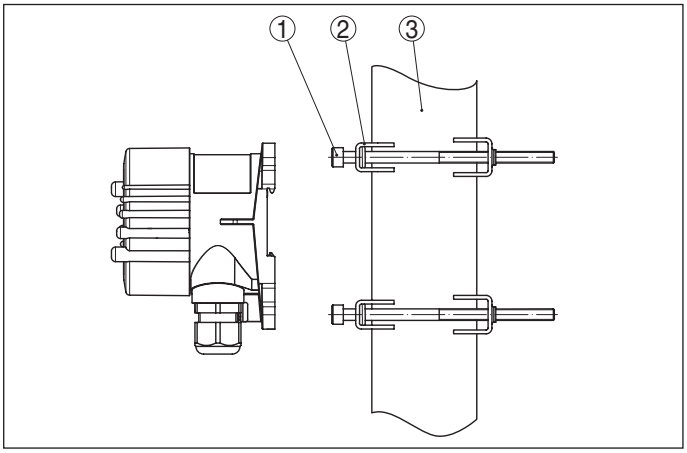
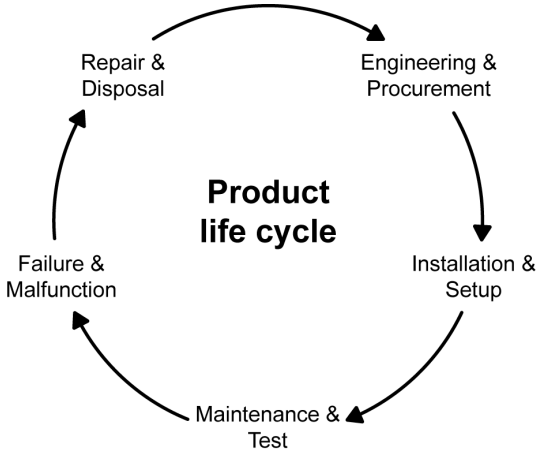


Fig. 5: Tube mounting

1 Screws
2 Mounting bracket

Sun shade
The sun protection protects a VEGADIS from direct sunlight and thus prevents overheating of the electronics. It also improves the readability of the display when exposed to sunlight. The sun protection can be used for wall and pipe mounting.

4 VEGA services



myVEGA - your digital platform

Device management
Access to all VEGA devices including configurations, device master data, documentation, device backups and parameter adjustments

Online orders & Product catalog
Quick access to all VEGA devices, price and delivery time information, as well as direct integration into your ERP system

Individual device configuration
Creation, storage and management of individual device configurations – ideal for recurring applications or standardisation within the company

Project and plant overview
Clear structuring of projects and plants with assigned sensors, spare parts and status information

Your advantage: myVEGA bundles all important information and services in one platform – saving time, providing transparency and simplifying internal processes

VEGA Tools app - your smart partner

Free app for iOS and Android for wireless parameter adjustment, diagnostics, documentation and live transmission of VEGA instruments via Bluetooth – also ideal for measurement loops that are difficult to access

Your advantage: Maximum flexibility and time savings during setup, service, and maintenance – digital and intuitive

Personal advice – on site, by telephone or chat

Individual consultation by VEGA experts on selection, design and setup

Your advantage: The optimal solution right from the start – tailor-made, practice-orientated and economical

Free 24-hour hotline

Fast, free 24/7 support from experienced technicians for installation, maintenance and malfunctions – by telephone or digitally

Your advantage: Minimised downtime and maximum plant availability – help exactly when you need it

Repair & Disposal

Professional repair or replacement and environmentally friendly disposal of defective devices

Your advantage: Longer service life for your devices, lower costs and an active contribution to environmental protection

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All statements concerning scope of delivery, application, practical use and operating conditions of the sensors and processing systems correspond to the information available at the time of printing.
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