



Wireless communication

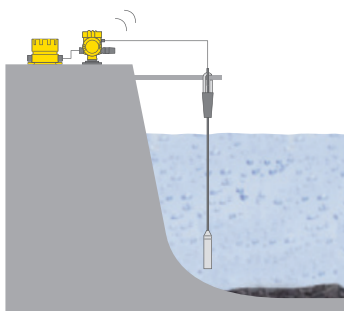


Area of application

Wireless communication devices are used when measured values have to be transferred from remote monitoring stations or mobile tanks to data collection centres. This makes them ideal for use in conjunction with VEGA Inventory System, the software for automatic inventory monitoring. They also enable wireless remote diagnostics and maintenance of their connected sensors.

Principle of operation

Only the transmitting unit is required for wireless communication. It is connected to the sensors via a serial bus cable or via the standard 4 ... 20 mA/HART signal cable. The transmitting unit provides the voltage supply for the sensors, reads out the measured values and transmits them to a data collection centre via the local mobile phone network.




Advantages

Simple operation through the use of open and standardized frequency bands (multi-band technology). High flexibility for the user thanks to free choice of mobile network. Especially fast setup as well as maintenance-free operation when using the VEGA service package "Wireless Data Transmission".

	PLICSMOBILE T81	PLICSMOBILE in the sensor	PLICSMOBILE B81
			
Application	Remote data retrieval and remote parameterization for up to 15 HART sensors	Remote data retrieval and remote parameterization for one HART sensor	Battery and accumulator unit for PLICSMOBILE
Input	1 to 15 HART sensors	1x VEGAPULS 64/69	1x solar panel
Output	VEGA Inventory System, e-mail, SMS	VEGA Inventory System, e-mail, SMS	Power supply of PLICSMOBILE and the connected sensors
Display/adjustment	PACTware and DTM/ VEGA Tools app	PLICSCOM/PACTware and DTM/ VEGA Tools app	–
Technology	GSM/GPRS/UMTS/GPS/LTE/ Bluetooth	GSM/GPRS/UMTS/GPS/LTE/ Bluetooth	–
Mounting	Wall or tube mounting	Integrated in field device	Wall or tube mounting
Temperature range	-20 ... +65 °C	-20 ... +65 °C	Battery: -10 ... +50 °C, -40 ... +80 °C (lithium) Battery pack: -20 ... +50 °C
Voltage supply	9.6 ... 32 V DC	9.6 ... 32 V DC	Battery: 4x 1.5 V 4x 3.6 V (lithium) Battery pack: 4x 1.2 V
Approvals	–	–	–
Benefit	<ul style="list-style-type: none"> Autonomous solution for remote enquiry of measurement data and remote parameterization of 1–15 sensors World-wide application through multi-band technology High flexibility through free choice of mobile network operator Increased operating time with battery or accumulator via integrated power management Alarms via e-mail and SMS 	<ul style="list-style-type: none"> Autonomous solution for remote enquiry of measurement data and remote parameterization via radio module integrated in plics® sensor 	<ul style="list-style-type: none"> Cost-effective solution for autonomous operation of PLICSMOBILE with battery or accumulator supply Increased operating time with accumulator via integrated charging circuit and connected external solar panels

Wireless communication

Wireless router	
	
Application	For connecting to the Internet, for controllers with Ethernet interface
Input	Controllers with Ethernet interface
Output	VEGA Inventory System, e-mail
Display	6x LED status indicators
Technology	GPRS/UMTS/LTE
Mounting	Wall mounting, carrier rail 35 x 7.5 according to EN 50022
Temperature range	-40 ... +75 °C
Power supply	9 ... 36 V DC
Approvals	–
Benefit	<ul style="list-style-type: none"> ▪ Cost-effective solution for remote enquiry of measurement data and remote parameterization of 1 - 15 sensors via connection to controllers ▪ Worldwide use via multi-band technology