

IIoT Solutions:

Battery powered wireless data transmission for remote locations

Overview

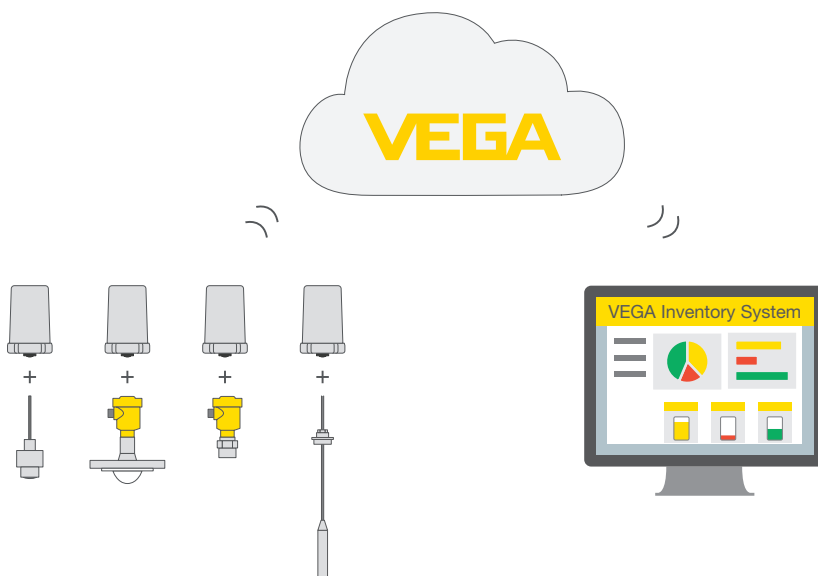
The SignalFire Ranger is an IIoT (Industrial Internet of Things) cellular transmitter using the latest LTE CAT M1 or NB-IoT technology for level and pressure sensors. It provides battery power to the sensor and cellular data transmission to the VEGA Inventory System (VIS) in remote locations.

Battery life

Battery power will provide years of service in most applications. Total battery life is dependent on sensor type, mode of operation, and transmission interval time. Solar power options are available for applications requiring frequent reporting or higher power consumption. The batteries are replaceable.

Transmission interval time	VEGABAR 10/20, VEGAPULS C11/C21/C23/11/21, and VEGAWELL 52
30 minutes	2.7 years
60 minutes	6.7 years
3 hours	7.9 years
6 hours	8.2 years
12 hours	8.4 years

The Ranger can receive inputs from 4 ... 20 mA, HART, or Modbus level and pressure sensors and is supplied with fully-integrated cloud monitoring and alerting services through VEGA's web-based hosting service. No programming or additional hardware is required.



Once installed and commissioned, measurements can be scaled, alert levels set, and reports configured using the web-based portal. Sensors can be remotely accessed via PACTware to make adjustments. REST API is available for automated data exchange with other systems and applications.

SignalFire Ranger

- Easy setup and connectivity of a sensor to the cloud over cellular networks
- Optimized for battery life using latest cell modem technology LTE CAT M1 or NB-IOT
- Single 4 ... 20 mA or HART input to connect to level and pressure sensors
- Transmission interval can be accelerated for upset conditions based upon measurement or using the optional digital input such as a float switch
- Cloud monitoring and alerting services through VIS hosting solution



VEGA Inventory System

The VEGA Inventory System (VIS) is a web-based solution for remote monitoring that pairs with VEGA measurement sensors to deliver up-to-date information. Users can view measurements and trends, receive notifications by text or email, access data 24/7 via mobile app, and share data with other systems via a REST API.

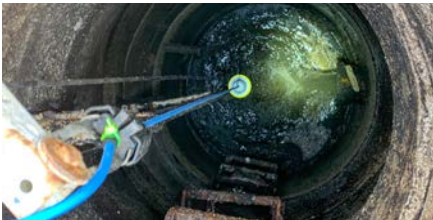


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Common Applications

Water and wastewater



Lift stations



Storm overflows



Deep wells

Water collections systems and drinking water resources can be spread far and wide, especially in rural areas. Level monitoring and pump control are vital to keep these processes running.

Inventory management



Storage tank monitoring



Holding tanks



Silo level

Remote storage sites often operate with limited personnel in out-of-the-way locations. These sites may not have ready access to power, but remote monitoring for inventory management is vital.

Upstream Oil & Gas



Wellhead



Drilling product



Product inventory

Drilling sites are often found in remote locations and great distances from one another. Powering a sensor and sending the data to a central location may be cost-prohibitive or impractical.

VEGA

Contact your local VEGA seller
for more information.
www.vega.com

 **SIGNALFIRE**
— WIRELESS TELEMETRY —