

# Modbus Cloud Connect

IoT - simply easy.



## your machine, directly to the cloud.



## An IoT product that makes many things easier



### Easy to use

Modbus Cloud Connect is ready for use via plug&work. This is because Modbus Cloud Connect is an „all-in-one product“ consisting of hardware, connectivity, self-service portal and support.

Users without extensive IoT knowledge are enabled to effectively use the added values through the connectivity of devices. Connecting devices has never been easier.



### Versatile use

Modbus Cloud Connect is applicable in a variety of use cases and scenarios across industries and device types.

The product is compatible for retrofitting, i.e. equipping existing devices. It is also suitable for connectivity of new devices independent of lengthy product development cycles. It thus enables more insights to be gained into customer usage, processes to be designed more efficiently and sustainably, new business models to be established and long-term competitiveness to be maintained. Connecting devices has never been more versatile.



### Flexible integration

Modbus Cloud Connect is flexible in terms of seamless integration into existing systems, both on the device side and on the cloud/IT infrastructure side. On the device side, it enables vendor-independent and wired connectivity to Modbus devices. From the devices, bidirectional data communication takes place wirelessly and independently of existing infrastructure via NB-IoT and LTE-M into the cloud/IT infrastructure. Existing adapters are used for this purpose to communicate the data via established standard interfaces and data formats. Connecting devices has never been more flexible.



### Fields of application

#### • Energy Management & Building Services

Data bridge from energy meters and Modbus-enabled building services equipment into ESG platforms, ESG reporting tools, to the metering point operator, for visibility of consumption and derivation of energy saving measures.

#### • Remote Monitoring & Remote Control

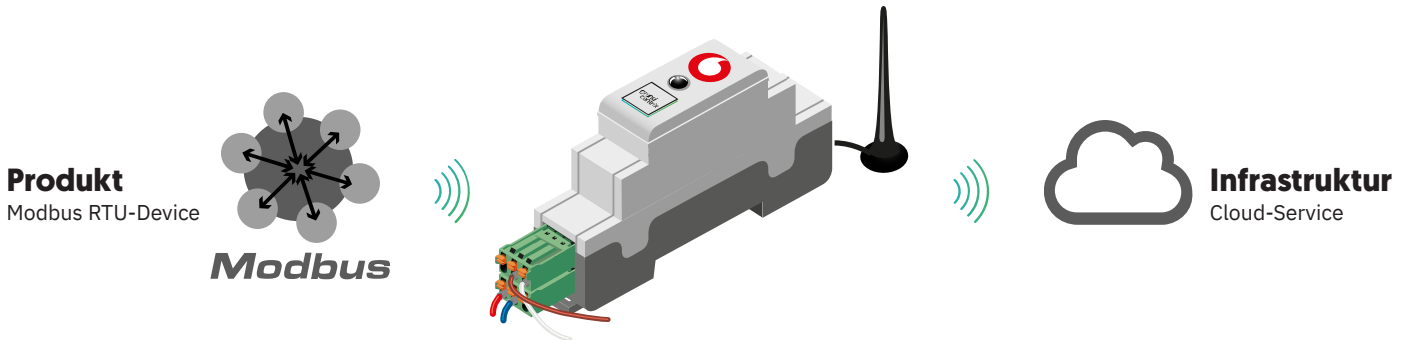
Query and control of devices (sensors and actuators) in products, machines, plants to optimize service, maintenance, repair based on device data and states.



# Modbus Cloud Connect

## Product modules at a glance

The „all-in-one product“ from one of the IoT world leaders for direct connection of Modbus devices via Narrowband IoT & LTE-M to your cloud.



### Hardware

The CE-certified and in-house developed gateway with Modbus RTU master is suitable for DIN-rail mounting and can be connected through a serial RS-485 2-wire interface. The integrated mobile radio modem (Nordic nRF9160) and the enclosed antennas take over the reception and transmission of data via mobile radio.

### Connectivity



The product includes a factory-installed and tested Vodafone Global SIM card (chip) to enable data transmission via Narrowband-IoT (NB-IoT) and LTE-M already in over 25 countries. The necessary data tariff for the connection tariffs is also included to directly take advantage of LPWA (low-power-wide-area) network technologies.

### Self-Service-Portal

To facilitate device management, a self-service portal (backend and frontend) is included. This includes configuration of Modbus RTU devices as well as bus systems, an online live monitor and flexible data connection through provided cloud adapters (MQTT, HTTP).

### Support

Initial support for commissioning (device onboarding) with a personal contact person makes it easier to get started. In addition to the self-service portal as a low-code application, permanent support with a service desk and ticket system is also available for operating the solution.

More information on our website  
[grandcentrix.net](http://grandcentrix.net)



## Discover the added value for yourself with a 3-month trial, incl.:

- 2x Modbus Cloud Connect Gateway (Modbus-master) incl. antenna
- 1x Cloud adapter for data integration
- Access to web-based self-service portal for device administration & configuration
- support for commissioning and technical queries
- included connection services with data tariff via narrowband IoT & LTE-M
- 3 months term

Your Vodafone Business or grandcentrix contact:in will be happy to advise you on Modbus Cloud Connect for your use case.