

VIVAVIS

DECODING THE FUTURE



Skalar.pro G3-PLC-Solution

The easy way to connect – devolo G3-PLC Modem 500k supports Skalar.pro devices

Automatic meter reading requires telecommunications. But the range of available connection modes might be quite limited depending on the location. However, there is always the mains, which serves as basis for the integrated solution of VIVAVIS and devolo. G3-PLC Modem 500k communicates via the lines therewith bridging the distance between meter and local area substation. This way even such meters can be optimally connected to IDSpsecto that are difficult to reach.

Advantages for energy companies, municipalities, and meter operators are plain to see: High-speed data transmission, data security, stability, cost-effectiveness, and reliability now and in the future.

In detail

- Ideal for environments with bad communication infrastructure
- Secure and effective data transmission throughout the complete distance
- Comfortable integration into IDSpsecto enabling productive operation quickly
- Starter package with extensive technical support
- Tried and tested alternative for telephone connections concerned by the Telekom's conversion to IP technology

A solution born in practice

Technical conditions on site decide on how a control point is connected to the telecommunications network. Power line communication (PLC) is just the right thing to use when mobile networks, landlines or Ethernet are only available in poor quality or even not available at all.

So, we enhanced our product portfolio accordingly to support you even in this case. Effective from now and in cooperation with devolo, VIVAVIS offers a whole solution including meter reading and the metering system IDSpecto. The proven Skalar.pro devices – Skalar.pro ETHN and Skalar.pro Mobile Service – are used to read measured values and transmit them to IDSpecto. The distance between the two Skalar.pro devices is bridged by the tried and tested G3-PLC Modem 500k by devolo.

Using PLC – Application cases and advantages

Skalar.pro devices combined with G3-PLC technology by devolo enable a large number of different application scenarios with the low voltage grid, eg control of consumers such as heat pumps, control of plants in accordance with German law (EEG) or variable electricity rates for final customers. The offered package is also an alternative for control points that are concerned by the Telekom's conversion to IP-based technology.

Benefits at a glance:

- Secure and stable system availability
- Optimum network coverage without adding repeaters
- Optimum range by means of low frequency band (150 up to 500kHz)
- Capacity reserves for future demands
- 100% building penetration – big advantages compared to radio technologies
- Developed in compliance with the international open ITU standard ITU-T G.9903
- High level of security against unauthorized access

The whole solution in short

At the customer, data of an energy meter is read via Skalar.pro ETHN with one of these interfaces – CL, RS485 or RS232 – and forwarded to the PLC modem via Ethernet connection. The PLC modem at the customer establishes an IP communication to the PLC modem integrated in the local area substation and forwards data via Ethernet connection to Skalar.pro Mobile Service, which has been connected to IDSpecto by means of mobile communication with GPRS.

