# Omexom PAV, E - Box

## *Superstructure of your generation plant for self-consumption*

Solar-Log™

***Your box for monitoring and compliance with the agreed connection effective performance***

Connect more generation capacity of your plant than the grid feed-in specifies and benefit from the use of your own electricity. In the past, full feed-in plants were mainly designed with the maximum approved feed-in capacity. Until now, this meant that no additional self-consumption system could be added. With the entry into force of **VDE-AR-N 4105:2018-11**, the installed capacity may exceed the agreed connected load under certain conditions. The prerequisite is that the operator of the plant ensures that the approved feed-in power is not exceeded.

With the energy flow relay, the **ZIEHL EFR4000IP**, you can shift the limit and thus install **up to 2/3 more generation power** than the grid connection allows.

In addition, this means you have the certified PAV, E-monitoring directly integrated and therefore continue to be connected to the grid in accordance with VDE-AR-N 4105:2018-11.

To make it as easy as possible we have developed created the **Omexom PAV, E - Box** for you.

The EFR4001IP energy flow relay serves as secondary plant protection in this system. With the primary plant controller from SolarLog in combination with the grid analyser from Janitza, you will receive a **compact** PAV-E Box. The customer's own transfer terminal strip guarantees **quick and easy** installation on site.

Modular PAV, E - Box by Omexom


## *The Omexom PAV, E - Box*

A PAV,E- monitoring is to be used, if the with the network operator with the grid operator at the grid connection point PAV,E is smaller than the sum of the installed than the sum of the installed maximum connected active power of all generation plants and/or storage facilities at this grid connection point.

With the Omexom PAV,E - Box you meet the requirements and have a complete system, including:

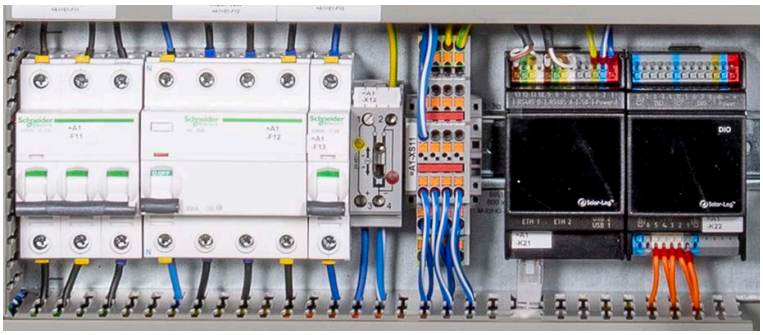
- Plant control
- Monitoring
- Compliance with the connected active power

## *Technology*

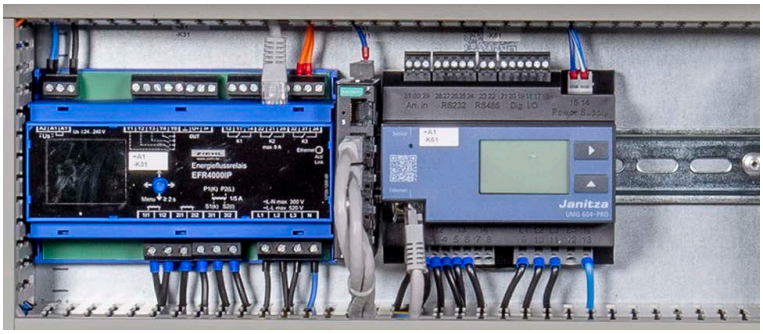
The SolarLog Base and Janitza UMG 604 serve as primary plant controllers and compliance of the active power at the grid connection point.

The EFR4000IP serves as a second shutdown condition in case of overbuilding of the plant according to VDE-AR-N 4105. The device acts as a secondary protection of the plant, the device monitoring of the agreed connected effective power.

Adjustable systems must reduce the power and must not exceed the characteristic curve.
With the PAV,E monitoring, compliance is monitored at three measuring points.



**Solar-Log Base and Ziehl EFR4000IP are the core of the Omexom PAV, E - Box.**



**Omexom offers many capabilities and integrated solutions:**

- Transformer station construction in Uedem
- Protection tests & protection technology
- Medium voltage switching authorisation
- Installation including medium voltage

OMEXOM

**Omexom Smart Technologies GmbH**
Horlemannplatz 1 - 47589 Uedem
+49 2825 89 - 321
smart-energy@omexom.com
**www.omexom.de/smart-energy**