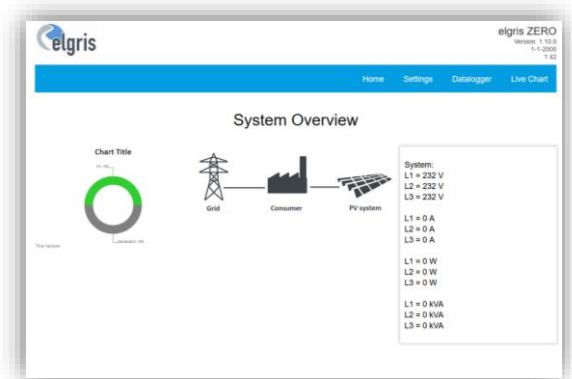
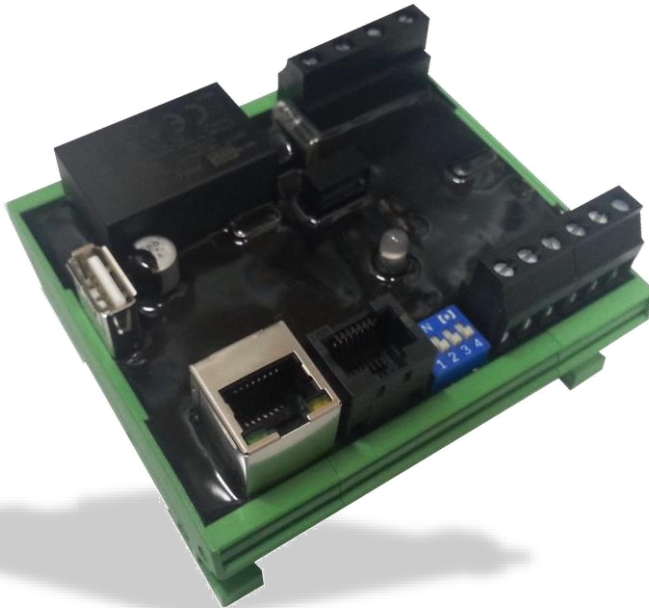


ZERO EXPORT

Optimal self-consumption management



- **Smart meter and controller in one device**
- **ZERO EXPORT control or specific power limit**
- **Real-time control of up to 10 different inverters**
- **Optimize self-consumption by load shading or shifting**
- **Easy to use web interface for configuration and USB data-logging**

With the dynamic elgris “ZERO EXPORT” solution the amount of solar energy will be controlled to a specific, user-limited, load setpoint to the grid or receives limited power from the grid or hold a 0% export by different self-consumption.

The system can be operated with single-phase or three-phase systems and accepts also up to ten different types of inverters and manufactures.

The “ZERO EXPORT” has a real-time control which can be adopted with an easy to use web interface. The interface provide the actual and the historical consumption of grid and solar power via a graphic illustration.

The controller records the data for later evaluations on an USB medium. By using intelligent switching of loads with user adoptable thresholds, the self consumption can be maximized.

Technical overview

GENERAL DATA	
AC power supply	80 – 250 V
Data interfaces	Ethernet (RJ45) for inverter control and internet connection Optional RS-485 (RJ45) for inverter control
Energy measurement	3 current inputs 0 – 5 A 4 voltage inputs (L1, L2, L3 N) 0 – 250 Vac Measurement interval: 1Hz
USB interface	Datalogging, Firmware update
Enclosure	DIN rail mounting with PUR protection
Dimensions W x H x D	90 x 80 x 45 mm
Weight	200 g
Protection degree	IP20
Ambient temperature range	-25 – 60 °C
FEATURES	
Power limitation	Feed-in limit as percentage of AC power or solar generator power Feed-in limit absolute in kW Zero feed-in to grid Minimum energy consumption from grid Single phase or 3-phase control
Settling rate	20 ms
Sampling rate	8 kHz
Datalogging	Storage of measurement values each minute on USB stick USB memory usage: ~150kB/day Connection to monitoring portal Automatic internet time via SNTP protocol
Intergrated web pages	Graphic of solar power vs. Grid consumption Graphic of actual values (solar power, grid consumption) Configuration page
Certificates	CE

