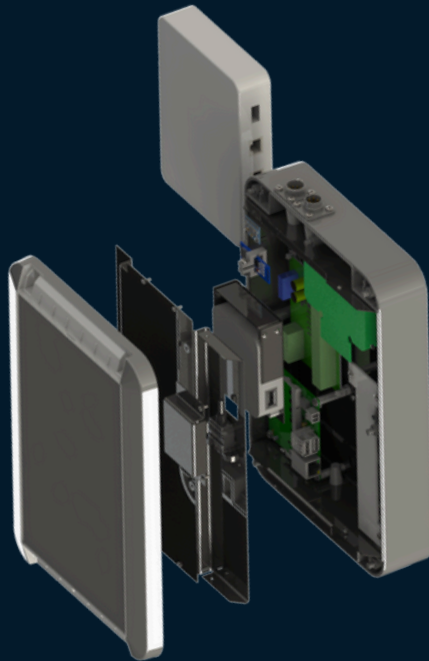


OMNI TRAF0

TRANSFORMER MONITORING SYSTEM



OMNI TRAFO

Description

The Transformer Monitoring System HVEX Omni Trafo was developed to integrate electrical power transformers from distribution networks with smart grids.

This equipment sends real-time information, enabling remote management of important network data such as: voltage, current, power, energy, overload, among others, mapping its operation, allowing analysis of asset lifespan, and measuring both technical and non-technical losses.

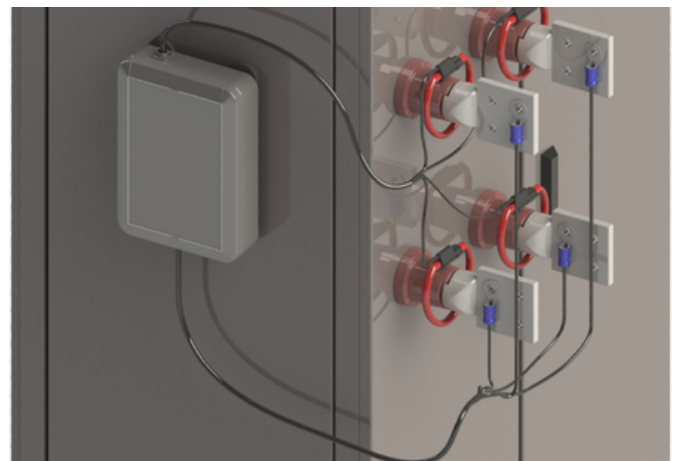
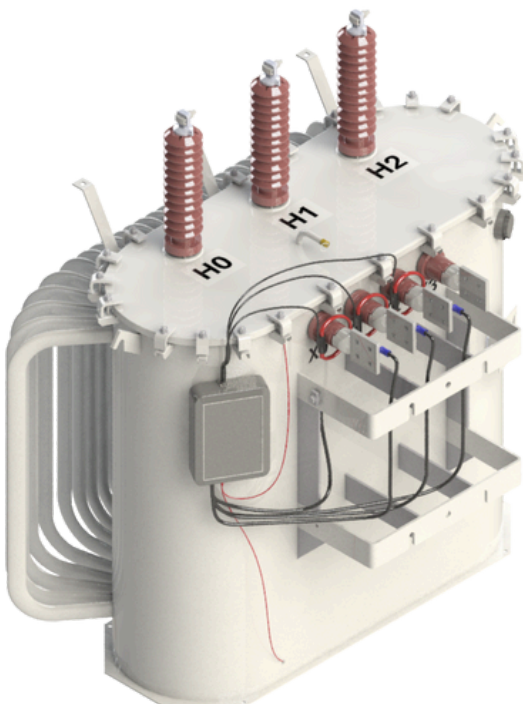
As a semi-distributed meter, it provides energy balance between the feeder and the consumption centers. The equipment sends data remotely, improving the information structure with systemic forecasts and hourly seasonal billing.

Benefits:

- Consumption and expenditure history
- Transformer self-diagnosis
- Proposes a new meter standard ideal for commercial, industrial consumers, and networks with non-technical losses.

Operation

- Power outage detection;
- Supervising and measuring low voltage of the transformer (voltage and current);
- Power factor;
- Current and voltage harmonics;
- Voltage, current, and load imbalances;
- Measurement of the energy balance for comparison and identification of technical and non-technical losses.
- Wi-Fi technology is standardized by IEEE 802.11, which defines the related protocols. This type of communication can be implemented at different frequency levels, but the most common one, also applied to Omni Trafo, is 2.4 GHz.



OMNI TRAF0

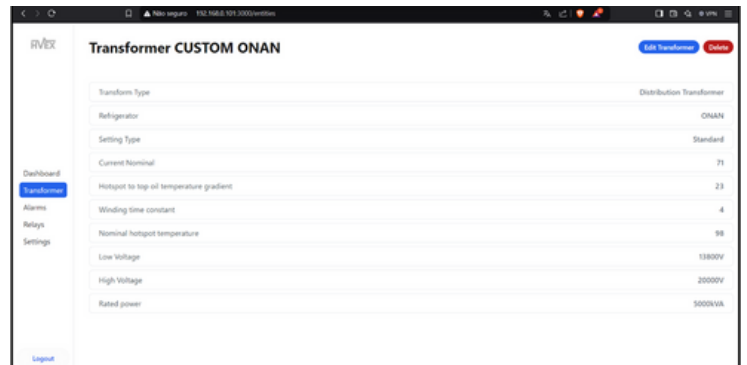
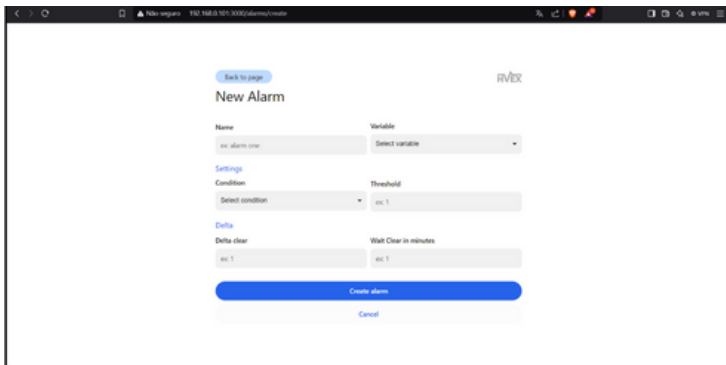
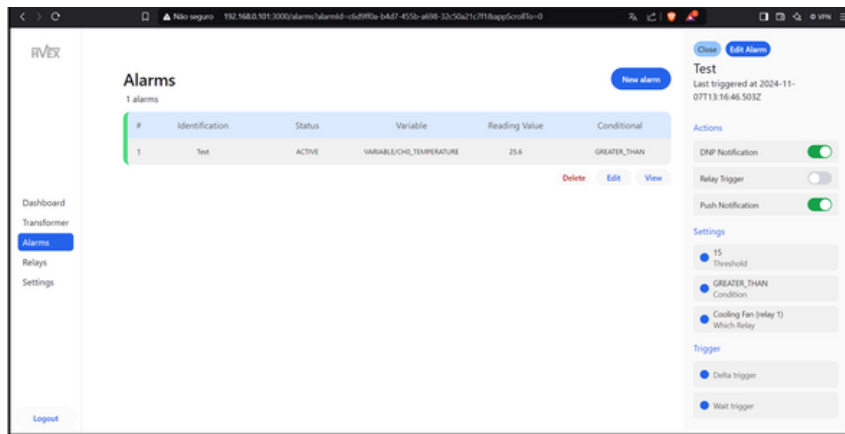
Web platform

- Customer, user, and installation management;
- Intuitive, consolidating information for the administrator;
- BI tools;
- Platform for data visualization;
- An excellent tool for energy management in consumers with mini or micro photovoltaic generation: the meter is located at the connection point with the utility company.

Advantages

- Low measurement cost;
- Fraud-proof, as the measurement instruments are internal to the transformer;
- A sensor network around the board will detect any fraud attempt;
- Improved analysis quality by reducing the sample collection space, clearly defining transformer performance, its expected performance, and the possible reallocation of productive resources.

Through communication, it is possible to obtain technical data via a web interface for asset mapping. The online platform provides consolidated data in a graphical format to facilitate user analysis.



OMNI TRAF0

Coupling magnets



Complete set



Technical Specifications

	Frequency	45 - 65 Hz
Measurements	Current	0 ~ 1000 A
	Voltage	0 ~ 380 VAC
Power supply	Three-phase	85 - 265 VAC
Connection wires	1P3W, 1P2W, 3P3W, 3P4W	
Phases number	3	
Connection type	Indirect	
Rated voltage	0 - 240 VAC	
Rated current	50 A	
Frequency	50/60 Hz	
Maximum rated current	1000 A	

Cabinet

Material	ASA (UL94HB)
Protection degree	IP67
UV resistant	Yes
Flame retardant	No
Weight	646 g

Technical Specifications

Resources

Communication

Wi-Fi

Power quality indicators

Supply, quality indicators, events, monitoring

Additional

Alarms, Registers, Memory 18 channels

We provide solutions for improvement of electrical energy generation, transmission and distribution efficiency, quality and reliability. With a highly specialized and experienced team in research, development and innovation, HVEX develops tailor-made solutions for Brazilian and foreign markets. Wide range of products with solutions focused on signal transduction, measurement, monitoring and protection.



Driving Innovation



☎ 35 3622-2699

✉ contato@hvex.com.br

🌐 www.hvex.com.br

📍 R. Ismael Pinto de Noronha, 86,
Nossa Sra. de Fatima, Itajubá-MG