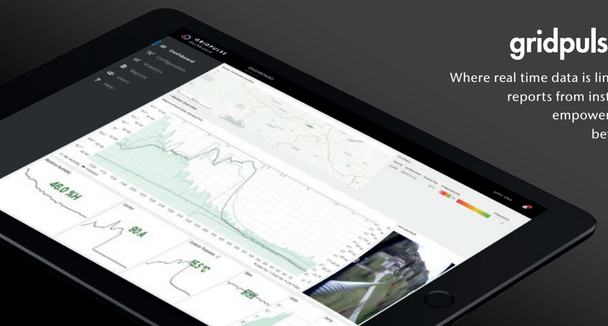
gridpulse® BASE

The accurate self-powered line monitoring sensor collects data directly from the transmission line on a real time basis

gridpulse® WEATHER

The reliable source for weather data directly from your line – makes highly accurate grid load predictions and Dynamic Line Rating possible



gridpulse® CONNECT

Where real time data is linked together, intuitive live reports from installed sensors continuously empower system operators to make better and accurate decisions

ENERGY

WE ENERGIZE THE WORLD

INTERESTED? LET'S TALK.

04-2024

Gridpulse d.o.o.
Riharjeva ulica 38, 1000 Ljubljana, Slovenia
Phone +386 1 236 42 40
info@gridpulse.com
www.gridpulse.com

Web LinkedIn

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Powered by Mosdorfer

ENERGY

WE ENERGIZE THE WORLD

EMPOWERING GRIDS AND THE PEOPLE WHO RUN THEM

DISCOVER GRIDPULSE
The Transmission Line Monitoring System developed by and for industry experts

Transmission lines are the lifelines of our modern world. They require maintenance and we believe that the people and organizations operating those lines deserve the best information available to be able to provide the best possible service in terms of reliability and performance - that's where Gridpulse comes in.

GRIDPULSE KNILL GRUPPE

How Gridpulse empowers TSOs

Reduce carbon footprint utilizing existing OHLs

Increase safety of grid operation

Make fact-based decisions

Safely increase hidden capacity

Identify critical areas before problems occur

Gain insights from multiple locations

WE GENERATE DATA AND TURN IT INTO KNOWLEDGE

Features

- Line Temperature
- Icing Detection
- Voltage Measurement
- Weather Prediction
- OnBoard High Resolution Camera
- Sag & Clearance
- Ampacity Prediction
- Line Conditions
- Motion Detection

Integrated GRIDPULSE system collects precise measurements of the line with a **gridpulse® BASE** sensor installed.
Based on the gathered data, critical events such as icing can be anticipated early and operators can take real time corrective actions to avoid critical situations before they occur.
The best-in-class **gridpulse® CONNECT** software processes all gathered data turning it into reliable and accurate basis for intelligent decisions.

Intelligent software is able to predict ampacity - affording operators the ability to efficiently operate electricity flows on the grid.
In combination with **gridpulse® WEATHER**, weather conditions can be precisely predicted for monitored locations of your lines providing necessary data for Dynamic Line Rating.

THE PROCESS THAT EMPOWERS REAL TIME ACCURATE DECISIONS

FEATURES & DATA

Analysis

Together with system operators our experts assess the individual needs of the grid driving the most suitable monitoring solution. Mosdorfer has a proven track record over many years of Transmission Line Grids and system operations.

Offering

Based on technical needs a tailored offer is created for specific situations with regard to sizing, investment and desired features.

Installation

It's not just about mounting the sensor – our service team is ready when you are to deliver a plug & play experience.

Online

Once online, operators are empowered by actionable insights on the grid.

Our aim is to make our solutions easy to use – from first contact and analysis of your individual challenges to configuration, installation and operation of your defined Gridpulse setup.
We believe that in order to solve problems a good system should not create problems itself.

With the experiences we have from many installations worldwide and our overall expertise in the field of transmission line components provided by Mosdorfer, customers benefit from our combined knowledge and experience from the start so operators can focus on the things that are more critical to their daily activities.

Technical data

Outside dimension (w x h x l)	315 x 298 x 315 mm
Weight	< 9 kg
Diameter conductor range	from 15 to 45 mm
Harvesting of energy from conductor	YES
Frequency	50 Hz (60 Hz)
Operating Temperature of gridpulse® BASE	from -40 to +85°C
Conductor temperature	from -40 to +200°C

Tested in accordance to all relevant standards.

Features and capabilities of gridpulse® BASE:
- autonomous power harvesting from phase conductor
- fire resistant composite housing
- connectivity to the **gridpulse® CONNECT** software via GSM, WiFi, LoRa, LoRaWAN, or satellite
- GPS localization
- high resolution camera

Measurement of:
- conductor temperature
- conductor inclination
- current, voltage
- ambient temperature
- ambient humidity
- vibration
- global radiation*
- wind direction and speed*

Calculation of:
- sag/clearance
- conductor creep
- icing/de-icing
- ampacity (with prediction)/dynamic line rating*

* *with/without **gridpulse® weather**, meteorological weather data and **gridpulse® connect** modules*