

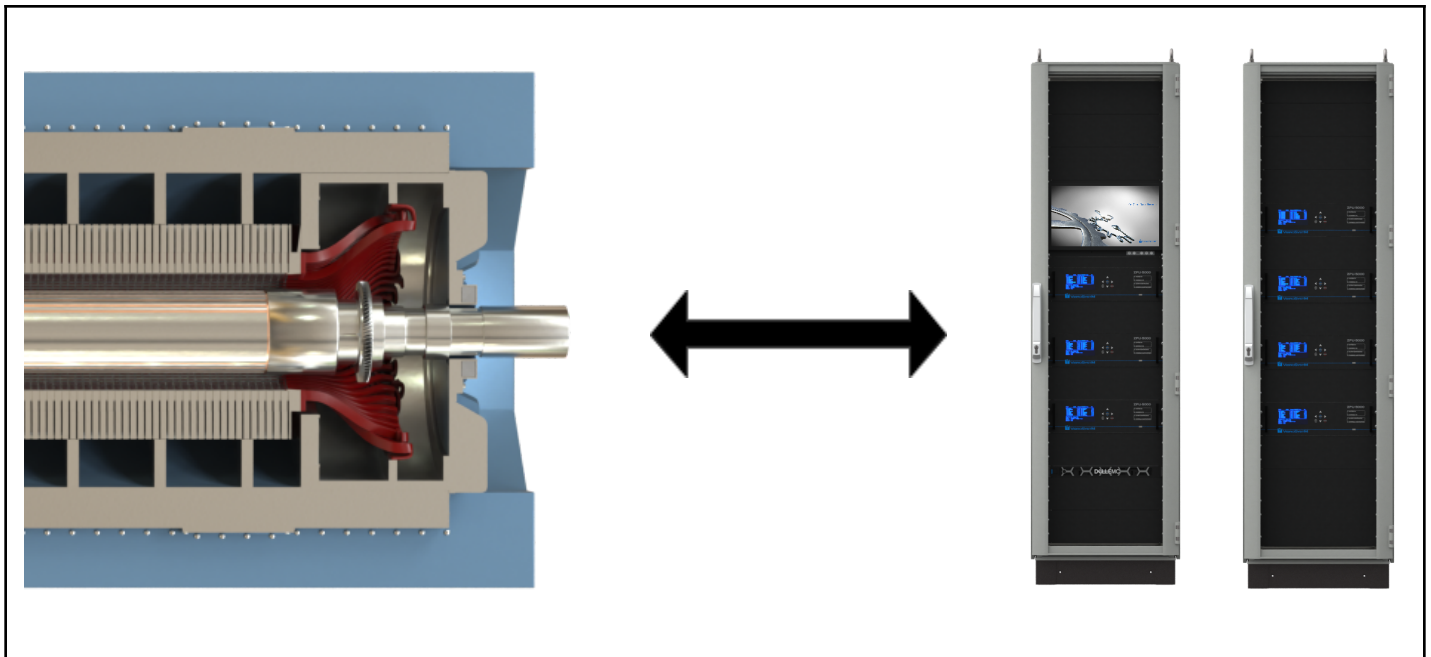


ZOOM® SYSTEM

EWMS - END WINDING MONITORING SYSTEM FOR TURBOELECTRIC GENERATORS

Having demonstrated its effectiveness and benefits for several years, our EWMS End Winding Monitoring System is now offered in the form of an efficient and cost-saving package. The standard EWMS package groups the essentials needed for successful installation and commissioning, from components and installation material down to a complete documentation set including drawings.

The EWMS package includes a standard monitoring cabinet, complete with instrumentation, ZOOM software, a combination of single and dual axis fiber optic accelerometers, two penetration flange kits, and most cabling and supplies* for installation.



The standard EWMS package can be easily upgraded to monitor additional parameters of your choice. The design of our monitoring cabinets allows for the installation of additional acquisition units for additional measuring chains. Additional acquisition units can be added either prior to delivery or later in the field, even after commissioning.

The EWMS solution provides basic monitoring for your generator. Use this cabinet to store the data, conduct further analysis, and establish trends for predictive maintenance. A communication gateway is provided for transmission of data to and from your existing SCADA. See our ZOOM Software documentation to learn about all the possibilities.

Our experts work with your personnel to oversee the complete installation. Essential training is provided during commissioning, and additional assistance is available with our optional service contract, maintenance plan or ZOOMWatch program. Consult our website, or ask your VibroSystM representative.



Our Offer

A starter package includes:

- Measuring chains:
 - 10 FOA-100E single axis fiber optic accelerometer
 - 2 FOA-200 dual axis fiber optic accelerometer
- One ZPU-5000 acquisition unit factory-installed in the cabinet
- One 19" standard cabinet, offered in two options:
 - Pre-wired Monitoring Cabinet: can house up to four ZPU-5000 acquisition units, for monitoring up to 64 measuring chains
 - Pre-wired Monitoring Cabinet with a ZOOM user interface including a rackmount Server and touch screen monitor: can house up to three ZPU-5000 acquisition units, for monitoring up to 48 measuring chains. The Server and touch screen monitor provide operators with a graphic interface access to the ZPU-5000 Acquisition unit measurement results and system status. The Server also provide data storage for automatically or manually triggered measurements using MS SQL Express (with limitations)
- Operation & Maintenance manual, which includes an overview of this system, a suggested maintenance schedule, a parts list, and the mechanical and internal wiring schematic drawings of your cabinet
- ZOOM 7 Software suite license package, including:
 - ZPU-5000 acquisition service plug-in
 - TWS and Stray Flux acquisition service plug-ins
 - Modbus communication service plug-in
 - OPC communication service plug-in
 - 5 user licenses
- Two penetration flange kits, each including:
 - Connectorized internal flange (M12 x 9)
 - Penetration flange (welded) with safety cover
 - Protection box 10-10-6 for flange
- Signal cables and connectors
- Installation material* including sensor installation material and required adhesives

Your Benefits - Beyond Saving Time and Reducing Costs

- When your monitoring needs grow, just add sensors and ZPU-5000 acquisition units in your existing cabinet to monitor any other compatible measurable parameter.
- You can also count on first-class technical support provided by our team of experienced professionals.

* *Not included: power cabling from main service panel to the cabinet and protective electrical conduits & fittings.*