

**TURBINE
DIAGNOSTIC
SERVICES INC.**

"The Turbine Doctor"®

Publication: TDS-702

DECS-250/250N Excitation System Upgrades Single & Dual/Redundant

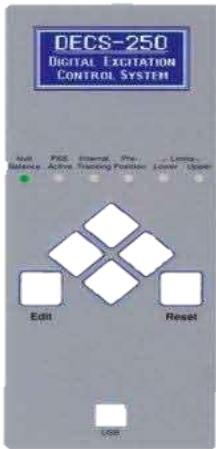
Overview

The stationary fields of many rotating exciters are still controlled by analog voltage regulators used to control the generator voltage and on-line VAR/reactive power production. These analog voltage regulators are becoming more and more unreliable with age. The current digital voltage regulator systems provides a digital controller to control the field current for the rotating exciter systems which in turn controls the amount of current to the main generator field. The Basler DECS-250 digital voltage regulator can supply this service up to 15Adc or 20Adc can be attained with the negative forcing DECS-250N. The DECS-250/250N is an extremely reliable generator voltage regulator and the next generation after the DECS-200 and can be provided in a Dual DECS-250/250N arrangement to provide a completely redundant back up to the primary controller.

Generator excitation system support and upgrades are an important part of what Turbine Diagnostic Services, Inc. (TDS) does to support your power generation needs. TDS maintains the hands-on, experienced engineering and installation teams to provide the complete system integration engineering required with complete and organized system application/interface drawings. TDS can provide the DECS-250/250N on a planned upgrade basis with a pre-engineered system, or utilize the Single/Dual DECS-250 Shipped Loose Upgrade Kit maintained in stock at TDS (subject to prior sale) for emergency service response.

Emergency Response –Dual DECS-250 KIT AVAILABLE NOW

TDS can provide upgrades for any type of excitation system. TDS's engineers will design and install your selected excitation system upgrade KIT so that it enhances the Owner's best project cost and schedule. The DECS-250 digital microprocessor voltage regulator is highly reliable in a single configuration as a stand alone controller with Auto and Manual Voltage Regulators. Should an Owner be looking for a simplified, economical solution, this single DECS-250 configuration option can be provided. The single and redundant dual DECS-250 KITS vary in complexity, lead times and cost structures and can be provided with a Power System Stabilizer and Auto-Synchronizer.



**DECS - 250 Digital
Voltage Regulator**

Dual DECS-250 Upgrade Kit with IDP-801 Remote Touch Screen Monitor. Shipped loose components for custom integration into the existing panels, utilizing space available from obsolete components removed.

IN STOCK

Contact TDS for further discussion, expected lead times, costs and hardware availability to best meets your schedule needs.



**IDP-801 Remote Monitor
For Planned Outages**

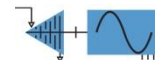
Depending on your schedule, the Dual DECS-250/250N Upgrade Kit is available in Multiple Configurations. From a standard or custom pan chassis panel, pre-wired unit; to shipped loose individual components custom integrated into your existing panels utilizing the space available from the obsolete components removed.

Turbine Diagnostic Services, Inc. is a full service turbine generator field service organization based in Odessa, Florida. **TDS** specializes in conducting Steam & Gas Turbine Generator planned & emergency Mechanical Maintenance, Turbine controls and Generator Excitation controls troubleshooting & Upgrades, Multi-Plane Vibration Analysis & Balancing Services and In Service Inspection.



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