Maestro

Improved energy efficiency for your land drilling applications

As an add-on product for our Amphion™-based drilling control systems, the Maestro™ system helps operators reduce fuel consumption while maintaining safe drilling operations. The configurable system monitors drilling equipment while effectively calculating and determining the appropriate, safe level of required power generation. Unlike reactionary systems, the Maestro system functions in real time with rig operations, and simple, built-in overrides can make full power available for emergencies.

Using capacity and load information for each generator along with preset or user-adjustable set points, the Maestro system will take an engine generator set offline or add an additional engine generator set to the system if needed.

The Maestro system also features a power allocation priority option, which allows configuration of the power system to operate under several preset, pre-approved, and optimized scenarios. The system will shed power on the individual tools in different ordered priorities based on the preconfigured arrangements for the drawworks, top drive, and mud pumps. Priority is given to the DWKS the top drive and mud pumps over the Top Drive and Mud Pumps drawworks to ensure that the drawworks will not lose control of the load.

Contact your local NOV representative to learn more about our Maestro system.

Features and benefits

- Fully integrates into the Amphion tool control and power management system
- Display real-time trends of drilling tool power consumption
- Monitor fuel usage and receive notifications when oversupply is occurring
- Reduce risk for blackout – maintains power consumption within available supply while dynamically adjusting available supply (additional hardware may be required)
- Load profiling allows operator to select Drilling or Tripping mode of operation for optimum power distribution.
- Determines loads and required power generation to automatically stop and start engine/generator sets
- Places the system into specific modes via priority feature to best allocate power to match operations