

Siemens implements fully integrated, digital gas engine control system into S-series engines

- **Siemens Gas Engine (SGE) business is implementing its GCS-E gas engine control unit into S series engines**
- **The GCS-E system integrates protection, ignition, knocking, speed and load control functions into a single unit**

Siemens recently implemented its GCS-E control unit into the S-series gas engines, following positive feedback received from the control units integration into the E- and H-series engines. The GCS-E system integrates all aspects of managing the engine's critical control and diagnostic functions into a single control unit, simplifying the engine control system.

The previous control system used in the S-series was comprised of independent units, each configured with its own software tool. Mounted directly on the genset, the GCS-E includes the complete engine control: carburation system, ignition system, safety and protection, knocking detection units, and engine speed and load control. Because less wiring is required to connect the engine control system to the plant system, commissioning is easier and the single-unit design reduces integration costs.

The unit supports a wide diversity of communications protocols allowing users to easily monitor the engine's most important sensors, alarms and variables.

The control system is configured and calibrated with a single software tool which allows for remote support – a feature not found on the traditional control system. The engine's advanced diagnostic functions enable the most important parameters to be graphed in real time and sends warning reports via email with regular information on alarms and post-mortem analysis. The system also features an improved spark-plug life span indicator. By enabling an Ethernet connection for remote support, users can now connect to the engine from any location by simply installing a digital monitoring tool on their computer.

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