

GenStart M2M Solutions

RS485 Communication

In recent years there has been an increasing demand for remote notifications, monitoring, and control. The GenStart standby generator controller uses a proprietary RS485 protocol to communicate with external devices to provide access to virtually every parameter captured by the controller. Users can download and upload profiles, receive notifications of events, download logged reports, start or stop the generator, or update firmware from anywhere in the world.

Events - Events are separated by priority with shutdowns and critical alarms being high priority. Pre-alarms and non critical alarms are medium priority and exercise functions are low priority. You can select which priorities will be acknowledged and which will be discarded.

Profiles - Profiles define how the controller manages the generator. Parameters such as system delays, sensor calibration, channel functions, and trip points to name a few.

Notifications - When an event occurs, the controller will take a snapshot of all parameters as well as save the status of the generator when the event occurred, the date and the time. The nature of the event is stored in nonvolatile memory and the detailed message is added to the notification queue. When an external device polls the controller it immediately passes these notifications to the modem to be sent as email, SMS, or raw data for backend monitoring.

Reports - Information contained within the controller's memory can be downloaded, cleared, or saved to disk. Reports include the event history, exercise settings, calibration data, and run hours.

Generator Control - Provides basic control functions (Start, Stop, Off, and Auto mode) as well as readings from a common set of parameters, oil pressure, fuel level, coolant temperature, 3 phase voltage, 3 phase current, frequency and RPM.

Firmware Updates - Supports OTA updates.

Wi-fi Modem

Perfect for installations that have a readily available wireless gateway. With 2 modes of operation this versatile Wifi radio is sure to get the job done. Infrastructure mode will connect to your existing network to provide remote connectivity, email alerts, SMS alerts, and data connections for backend monitoring. Transparent mode will act as a wireless RS485 link to the Wifi annunciator or set both to infrastructure mode for a totally wireless solution with remote access. This radio also has 2 external triggers that can be programmed with custom messages for adding external components.

Cellular Modem

This CDMA radio will provide access and notifications in remote locations that do not have an existing data connection. The CDMA radio provides all the features of the Wi-fi modem without the need for internet access. Back end monitoring, remote access, email alerts and SMS alerts. Data plans available over our secure private network for as little as \$5 a month.

Wi-fi Annunciator

This 23 light Wi-fi annunciator has all the features of the Wi-fi modem built in. Options to run in both infrastructure and transparent modes. Hard wire to the RS485 port for remote indication of alarms with Wi-fi access or add a Wi-fi modem for a totally wireless solution.