

SENTRY-PRO SENTINEL-SCOUT by GILLETTE GENERATORS



SENTINEL-SCOUT is our standard controller equipment on all 4-pole, 1800 or 1500 RPM generators. It is an Automatic Utility Mains Failure Control Module. The module is used to automatically start the engine while indicating the operational status and fault conditions, and automatically shutting down the engine while indicating the reason for engine failure by means of a red flashing LED over the appropriate icon, that caused the failure.

Operation of the module is via push-button mounted on the front panel with STOP-MANUAL-AUTO modes. **STOP:** This mode is used to stop the engine, when it is running and to cancel "AUTO" mode. It is also used to reset any shutdown alarm conditions. **MANUAL:** This mode is used to manually start and run the engine, and can be manually stopped by pressing the "STOP" push-button. **AUTO:** This push-button selects the automatic operation mode, in which the module will await the remote (automatic) start signal. Once received, the module will initiate its pre-programmed start sequence, observing the setting of start delay timer before starting the engine. An automatic stop signal occurs upon fault conditions, or the return of normal utility electric power.

► **Multiple Alarm Channels:** These channels are provided to monitor the following: Low Oil Pressure • High Coolant Temperature • Overspeed • Underspeed • 12 VDC Charge Alternator • Fail to Start • Auxiliary Input #1 • Auxiliary Input #2 • (Note: These (2) auxiliary contacts are for custom applications for either warning information, or a complete shutdown. The relevant icon LED will be illuminated when the input is active.

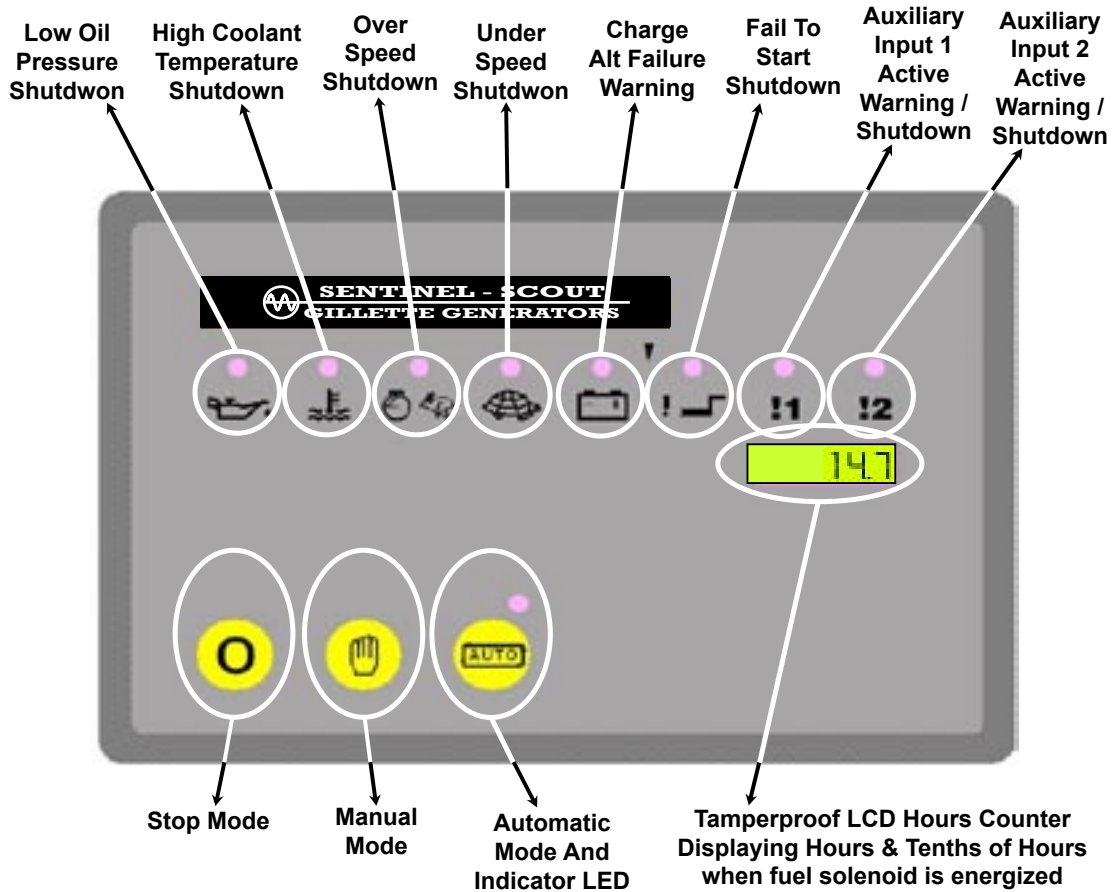
► **LCD Run Time Hour:** Tamperproof LCD display, engine hours counter, displaying hours and tenths of hours when engine is in operation.

► Features:

- Microprocessor based design.
- Automatic engine starting and stopping with three start attempts before automatic engine crank disconnects.
- Automatic shut-down on fault condition.
- High visibility LED indicators for low oil pressure, high engine temperature, over-speed, underspeed, fail to start, 12VDC engine alternator fail, and (2) auxiliary LED inputs for custom control.
- Configurable via front panel.
- Simple, push button controlled operation.
- Configurable digital inputs.
- Configurable solid state outputs.
- Configurable timer settings.
- Solid state fuel and crank outputs.
- Load switch output capability.
- External remote start input.
- LED alarm indication.
- Integral LED engine run hours counter.
- Start delay timer.
- Stop delay (cool-down) timer.
- Energize to stop timer
- Pre-heat timer (diesel)
- over-speed shutdown.
- Optional under-speed shutdown.
- Low oil pressure shutdown.
- High engine temperature shutdown.
- Optional engine crank disconnect by sensing oil pressure

SENTINEL-SCOUT LED, LCD, & PUSH-BUTTON LEGEND

The following section details the function and meaning of the various controls on the module.



OPTIONAL SENTINEL III AND IV CONTROLLER PLUS ACCESSORIES



SENTINEL III : Digital module used to automatically start and stop the engine, indicating the operational status and fault conditions. These faults plus normal operation status, is shown on graphical LCD display and a flashing red LED on the front panel. Included operational timers and alarms can be altered by user. Adjustments can be made in the field, by using the integral front panel editor, with no lap-top or other special equipment. Metering via the LCD display includes: Gen. volts L1-N, L2-N, L3-N plus L1-L2, L2-L3, L3-L1

- Gen. amps L1, L2, & L3
- Gen. frequency HZ
- Eng. speed RPM
- Eng. Oil Pressure
- Eng. temperature
- Engine battery volts
- Engine run hours

digital inputs, analog inputs, and relay outputs make this a multi-task programmable controller with (47) reporting functions.



SENTINEL IV : This auto start-stop and instrument module has the same features as "SENTINEL III" plus many more: Advanced 16 bit microprocessor programmable controller • Graphic LCD display for true, 4 selected languages • Simple, all push button controlled operation • Remote telemetry and control via a computer with MS Windows 9x • Earth fault shutdown • 15 event memory, and many more. The most important feature of this controller is that it allows remote telemetry for full control of your generator set, from any part of the world.



PART #157 is an OUTPUT RELAY EXPANSION MODULE, allowing (8) more, contacts for additional annunciating or control functions than normally achieved by the limit of (3) functions on either SENTINEL III or SENTINEL IV.

PART #548 is an LED DISPLAY ANNUNCIATOR, configured to provide eight user definable annunciations, while the remaining two bottom units (total 10) are fixed for "Link Lost" and "Power On". This is an expansion of "Sentinel IV" host modules to display normal or fault conditions, up to 150 feet remote location.



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