

GENERATOR START INHIBIT DEVICE (GSID)

AF000408

Revision: 4.0 | August 2026



OVERVIEW

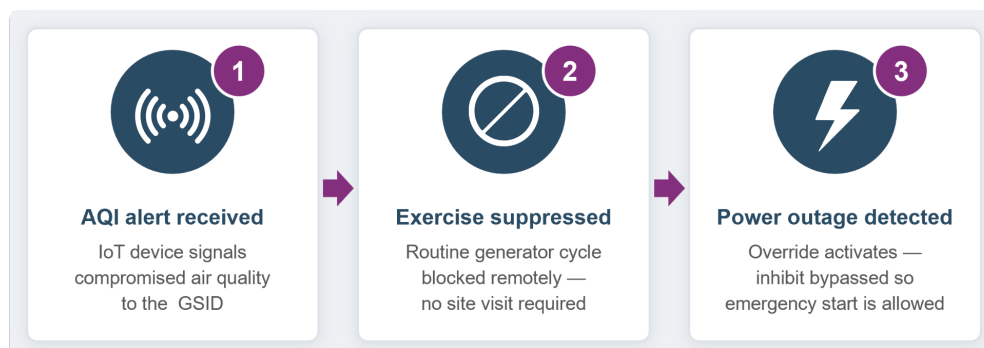
Featuring patented technology (U.S. Patent No. 12,695,402), the Generator Start Inhibit Device (GSID) is an IoT-enabled controller that prevents routine generator exercise cycles from running during periods of compromised air quality — helping telecom operators avoid fines under environmental protection regulations without requiring on-site reprogramming. When a true power outage or brownout is detected, the device automatically overrides the inhibit signal so emergency generator operation is never blocked. An essential protection device for outdoor DAC and telecom enclosures with backup generator power.



FEATURES

- **Two Operating Modes** — Supports both Remote Inhibit (via IoT device) and Local Inhibit (via manual switch) for maximum flexibility
- **Manual Switch for Local Inhibit** — On-site technician override suppresses generator exercise without reprogramming the ATS
- **Continuous Commercial Power Monitoring** — Sensor continuously monitors incoming commercial power to assess grid status
- **Commercial Power Loss Override** — Automatically overrides the gen start inhibit signal in the event of a full power outage
- **Brownout Override** — Detects below-threshold grid voltage and overrides inhibit to allow emergency generator operation
- **Time Delay After Power Restoration** — Configurable delay following power restoration before normal inhibit operation resumes
- **External Indicator Lamp** — Visual indication when generator exercise is actively inhibited
- **Normally Closed (NC) Feedback Contact** — Provides status feedback to an optional IoT device for remote monitoring
- **Power Fail / Brownout Alarm** — Alerts on power failure or brownout conditions
- **Failsafe Design** — Defaults to allow generator start in the absence of power, ensuring emergency operation is never blocked
- **Single-Phase Design** — Engineered for sites with single-phase power infrastructure

HOW IT WORKS



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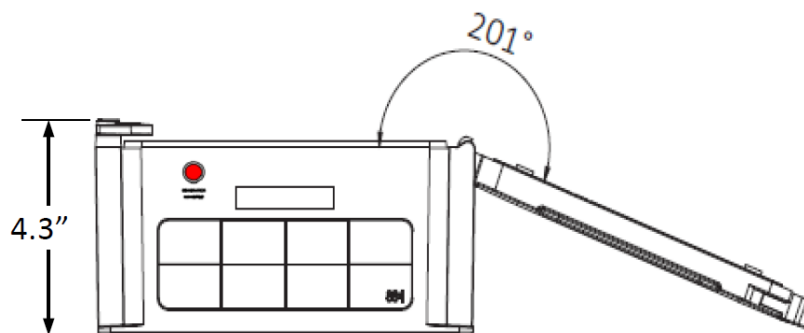
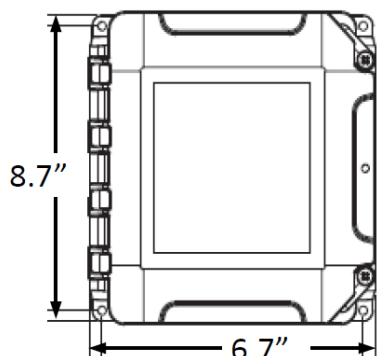
SPECIFICATIONS

	Min.	Typ.	Max.	Unit
Input Voltage AC	208	220	240	VAC
Delay After Power Restore		3		Minutes
Brownout Cutoff			180	VAC
Brownout Power Restore	190			VAC
Delay After Brownout Ends ¹	5		90	Seconds
Power Consumption			5.5	W
Operating Temperature	-40		65	°C
Storage Temperature	-50		90	°C
Relative Humidity	5		95	%
IOT Voltage		12V		VDC
IOT Current		130	400	mA

¹ Optional Random Delay — requires changing DIP switch

Feedback to IoT Device	Normally Closed (NC), Open when Inhibited
Certifications	UL 60730-1, UL E22575, UL File: E65390, UL 5085-1 and 3 (formerly UL1585), Class 2/3, UL-50 Type 1, UL flammability rating 94 V2, UL E19180, UL E69654, UL E340667

DIMENSIONS (INCHES)



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