

InteliGen^{NT}

GENERAL PURPOSE HIGH-END GEN-SET CONTROLLER



WebSupervisor
The WebSupervisor system, a secure web based remote monitoring system which allows equipment fitted with various types ComAp units to be monitored via the internet from a remote PC or other web enabled device such as smartphone, webbook, etc. It operates in any internet browser and needs no special software to be installed. User can view recorded data from their equipment, receive Email alerts on alarms and control the remote units. Dedicated App's for iPhone and Android provide a truly mobile constant connection with the monitored equipment.



AirGate
Modern communications made simple. ComAp's powerful AirGate technology is provided in a range of our controllers and makes remote internet connection to the ComAp controller easy. Just register the AirGate enabled controller on our website and from then on let ComAp's unique system locate and maintain contact with the controller, no need to worry about VPN's, Static IP addresses or corporate firewalls, simple! "AirGate - Simply connected."

Description

InteliGen^{NT} is a comprehensive controller for both single and multiple gen-sets operating in standby or parallel modes. Compact construction is optimized for these purposes and various HW modifications allow customers to select the optimum type for a particular application.

A built-in synchronizer and digital isochronous load sharer allow a total integrated solution for gen-sets in standby, island parallel or mains parallel. Native cooperation of up to 32 gen-sets is a standard feature.

InteliGen^{NT} supports many standard ECU types and is specially designed to easily integrate new ones.

A powerful graphic display with user-friendly controls allows any user whatever their ability to find the information they need.

ComAp is able to offer customized firmware solutions.

ComAp also has a marine version of the InteliGen^{NT} available for use in maritime applications. The InteliGen^{NT} Marine has the same features as the InteliGen^{NT}, but is approved for use in marine environments by DNV, GL, Lloyd's Register and CRS classification and registration bodies.

Benefits

- ▶ Support of engines with ECU (Electronic Control Unit)
- ▶ Excellent configurability to match customers' needs exactly
- ▶ Complete integrated gen-set solution and signal sharing via CAN bus – minimum external components needed
- ▶ Many communication options – easy remote supervising and servicing
- ▶ Perfect price/performance ratio
- ▶ Gen-set performance log for easy problem tracing
- ▶ Built-in PLC function

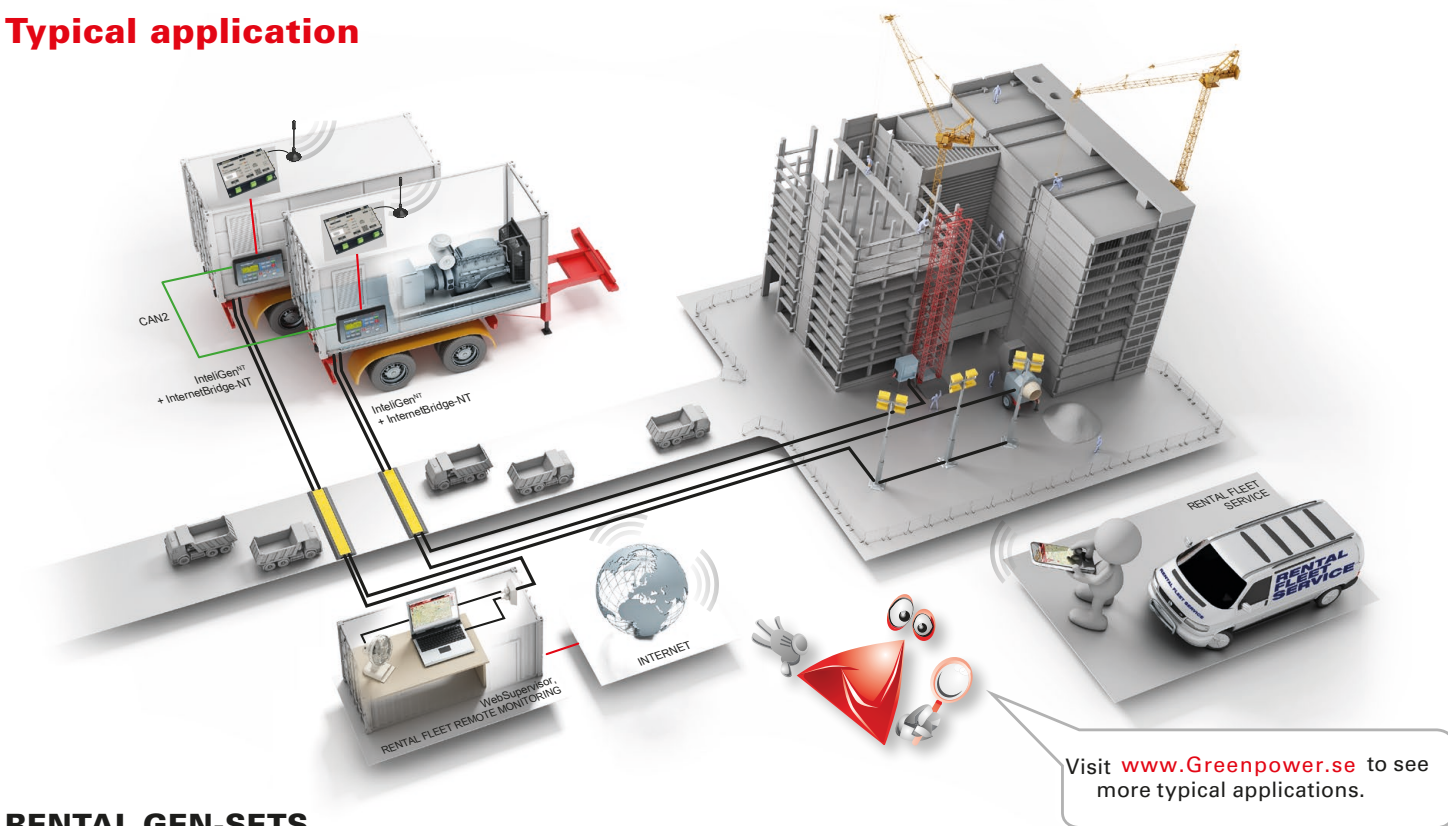
Upgrade kit

- ▷ **IGS-NT-LSM + PMS dongle:**
 - Enables Multiple isolated parallel or multiple parallel with mains
 - Optimizing number of running engines: Power management; kW, kVA or % load based
 - Digital Load Sharing
 - Digital VAR Sharing

Extension modules

- ▷ up to 12x **Inteli IO8/8** – Binary input/output, analog output module
- ▷ up to 10x **Inteli AIN8** – Analog/Impulse input module
- ▷ up to 10x **IS-AIN8** – Analog input module
- ▷ up to 10x **Inteli AIN8TC (or IS-AIN8TC)** – Module for thermocouple measurement
- ▷ up to 4x **IGS-PTM** – Analog/binary input/output module
- ▷ up to 4x **I-AOUT8** – Analog output module
- ▷ up to 4x **IGL-RA15** – Remote annunciator

Typical application



RENTAL GEN-SETS

Description:

- ▷ Containerized rental gen-sets are deployed as temporary and mobile power generation units providing essential energy for subsystems and construction machinery on building projects or civil engineering applications where mains power is not available or has been manually disconnected.
- ▷ The application shows rental gen-sets fitted with the latest remote communication module InternetBridge-NT which enables the central control facility and mobile service engineers to efficiently monitor, control and supervise equipment wherever it is located. By using the supportive web based software applications such as WebSupervisor, rental operators can significantly improve operational control.
- ▷ Each gen-set can be used in Stand-by, Single parallel

Communication modules and PC tools

- ▷ **InternetBridge-NT** – Communication module with cellular/ethernet connection
- ▷ **I-LB+** – Local bridge supporting USB communication
- ▷ **I-CB** – ECU communication bridge
- ▷ **WinScope** – Special graphical controllers' monitoring software
- ▷ **WebSupervisor** – Cloud-based system for monitoring and controlling of ComAp controllers
- ▷ **GenConfig** – PC configuration tool
- ▷ **InteliMonitor** – PC monitoring tool

Remote displays

- ▷ up to 2x **InteliVision 5** – New generation 5,7" colour display unit
- ▷ up to 2x **InteliVision 5 RD** – New generation 5,7" remote colour display unit
- ▷ up to 6x **InteliVision 8** – 8" Colour detachable display unit
- ▷ **InteliVision 17Touch** – 17" Touchscreen display unit

Functions chart

Product	InteliGen ^{NT}	InteliGen ^{NT} BaseBox	InteliGen ^{NTC} BaseBox	InteliSys ^{NTC} BaseBox
Order code	IG-NT GC	IG-NT-BB	IG-NTC-BB	IS-NTC-BB
Binary Inputs / Outputs	12/12 (108/108) ¹⁾	12/12 (108/108) ¹⁾	12/12 (108/108) ¹⁾	16/16 (112/112) ¹⁾
Analog Inputs/Outputs	3/0 (83/32) ¹⁾ (configurable as tristate)	3/0 (83/32) ¹⁾ (configurable as tristate)	3/0 (83/32) ¹⁾ (configurable as tristate)	4/1 (84/33) ¹⁾ (configurable as tristate)
AMF function	●	●	●	●
GCB control with feedback	●	●	●	●
Integrated PLC	Standard	Standard	Standard	Extended
Input configuration	●	●	●	●
Output configuration	●	●	●	●
Voltage measurement Gen / Mains (bus)	3 ph / 3 ph 277V	3 ph / 3 ph 277V	3 ph / 3 ph 120V / 277V	3 ph / 3 ph 120V / 277V
Current measurement	3ph + 1 / 6w IDMT overcurrent 5A	3ph + 1 / 6w IDMT overcurrent 5A	3ph + 1 / 6w IDMT overcurrent 1A / 5A	3ph + 1 / 6w IDMT overcurrent 1A / 5A
kW / kWh / kVA measurement	● / ● / ●	● / ● / ●	● / ● / ●	● / ● / ●
Communication interfaces	CAN1, CAN2, RS232, RS485, Ethernet ²⁾ , Modbus	CAN1, CAN2, RS232, RS485, Ethernet ²⁾ , Modbus	CAN1, CAN2, RS232, 2x RS485, USB, Ethernet, Modbus, Modbus TCP, AirGate, Web server	CAN1, CAN2, RS232, 2x RS485, USB, Ethernet, Modbus, Modbus TCP, AirGate, Web server
ECU support	●	●	●	●
Active call / SMS support	●	●	●	●
Forward / Reverse synchronizing / Mains parallel operation	● / ● / ●	● / ● / ●	● / ● / ●	● / ● / ●
Multiple operation / Power Management System	● ³⁾	● ³⁾	● ³⁾	● ³⁾
Display	LCD 128x64	External	External	External
History (max records) ⁴⁾	500	1000	1000	4000

KEY

- included
- CAN1 for peripheral modules and ECU (J1939)
- CAN2 intercontroller can; monitoring

- ¹⁾ With extension modules
- ²⁾ With communication modules
- ³⁾ With IGS-NT-LSM+PMS dongle
- ⁴⁾ Depends on number of values in history record

References

Peru 



Minera Lincuna

Minera Lincuna is an isolated metal ore mining operation, near the top of the Sierra Negra Mountain (5000 m above sea level). Due to the remote location and resulting weak local electricity supply, the system features three gen-sets working in parallel with the mains incorporating three InteliGen^{NT}s, one InteliMains^{NT} and remote monitoring across the internet via WebSupervisor.

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